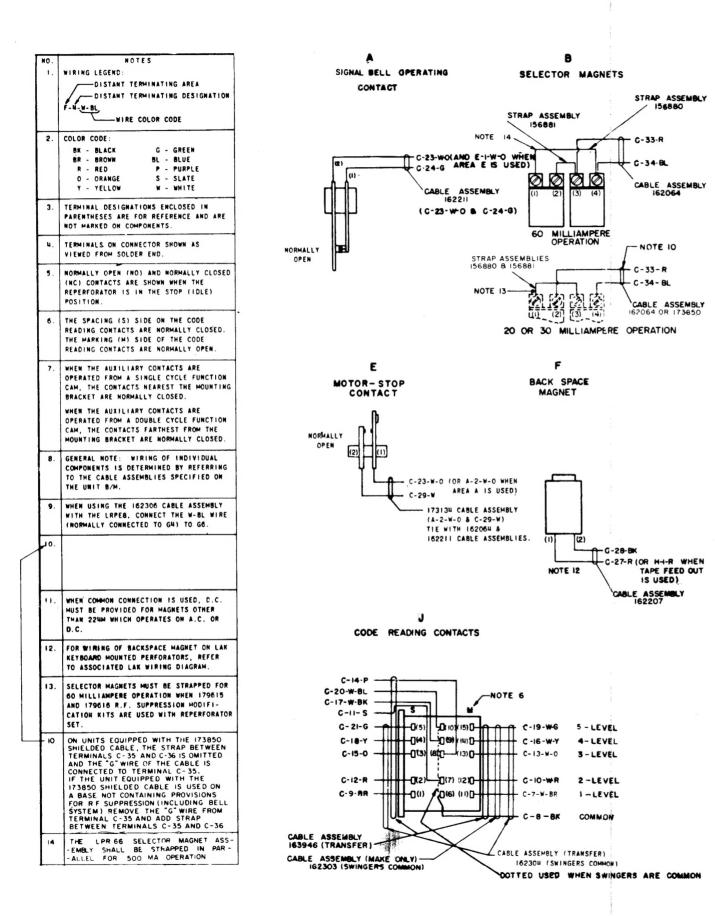
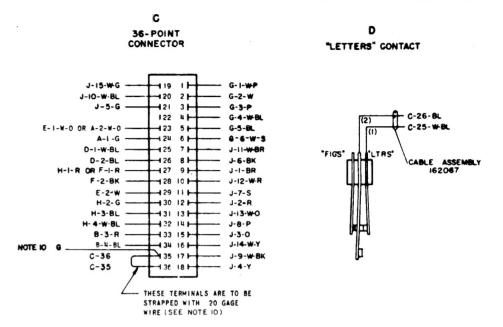
		AR SETS (BAUD)
	COVERS ENC TYPING REPERFORATORS KEYBOARDS RO BASES ESA'S/PCB'S MOTORS	45.5 45.5 56.8 74.2 50.0 75.0 45.5
NAVY DESIGNATION		
MANUFACTURER'S DESIGNATION	$((x_1, x_2, x_3, x_4, x_4, x_4, x_4, x_4, x_4, x_4, x_4$	
FIGURE NUMBER /		44
TELETYPE IDENTIFICATION NUMBER TT-253/UG TT-253A/UG TT-253B/UG		
TT-253D/UG TT-253D/UG TT-292/UG TT-292A/UG		
AN/UGC - 70** AN/UGR - 2 TT-192/UG TT-192A/UG		
TT-192B/UG TT-192C/UG TT-274A/UG TT-274B/UG		
TT-274C/UG AN/UGC-78*		
SETT-605/UG	28 RFC 600B/004/XXX/BR 28 RFC 600B/004/XXX/BR 50 RP *** RFFFR TO VSI 50 RR FOR COMPLETE BREAKDOWN AND PARTS (GEAR SHAFT ASSEMBLY FOR 60, 75, 100 WPM	<u> </u>

^{*}PART OF VSL 50BR***REFER TO VSL 50BR FOR COMPLETE BREAKDOWN AND PARTS (GEAR SHAFT ASSEMBLY FOR 60, 75, 100 WPM)

AN/UGC-70 CONSISTS OF VSL 569*WHICH INCLUDES VCL 561BR***, VCL562BR***, AND A COVER.

***VSL AND VCL ARE TELETYPE CODES USED FOR REFERENCE ONLY. BREAKDOWN OF VSL'S AND VCL'S MAY BE OBTAINED FROM TELETYPE CORP. ‡FROM NAVELEX 0967-588-010.





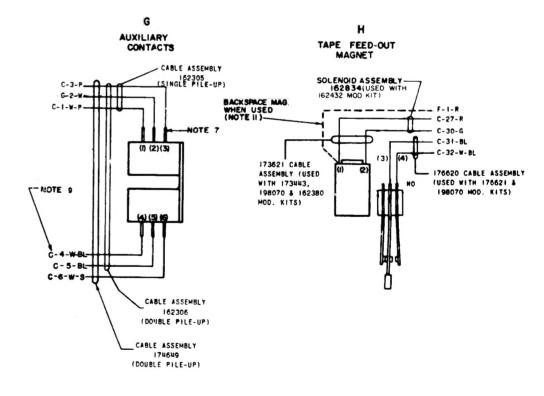
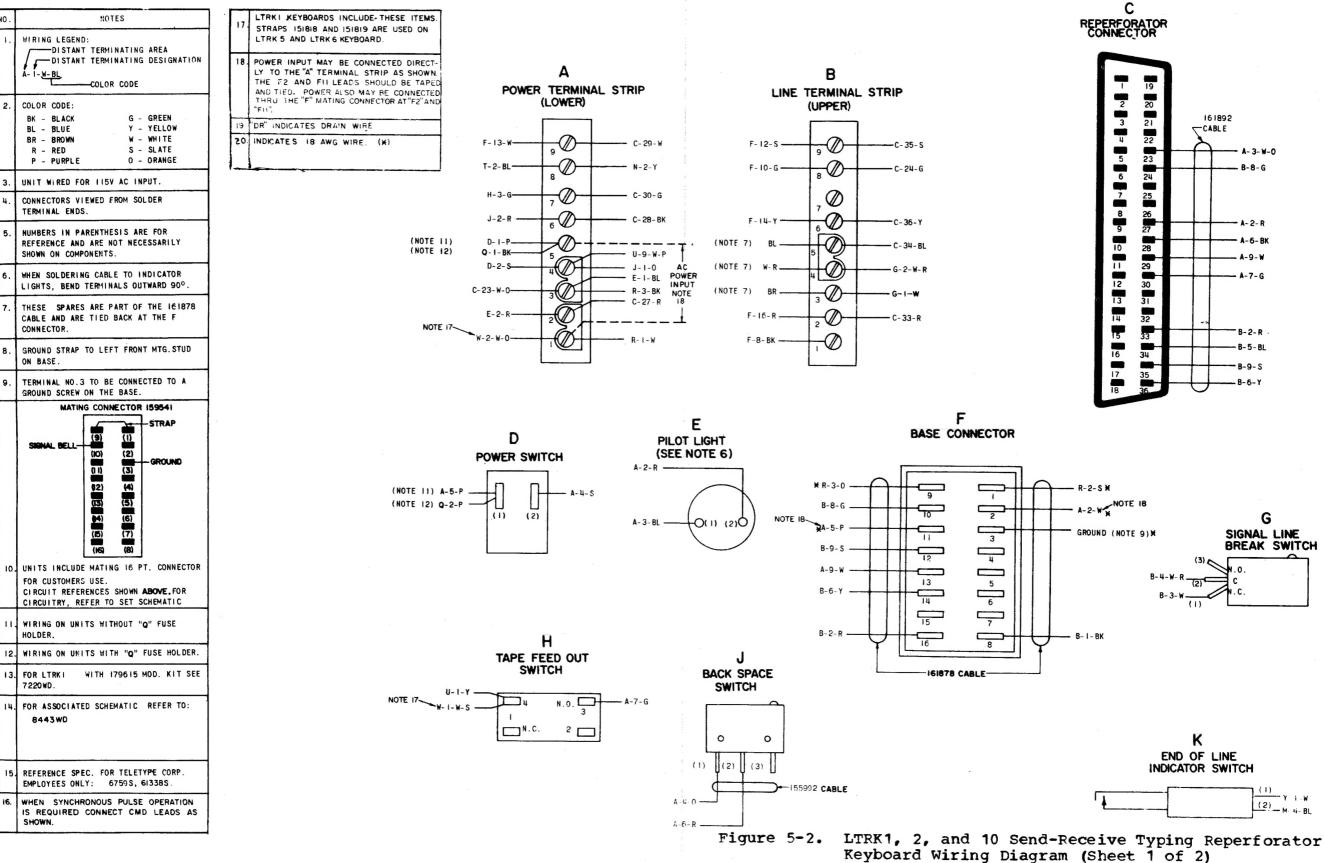


Figure 5-1. LPR, LPE and LRPE Typing and Non-Typing Reperforator Wiring Diagram



ON BASE

HOLDER.

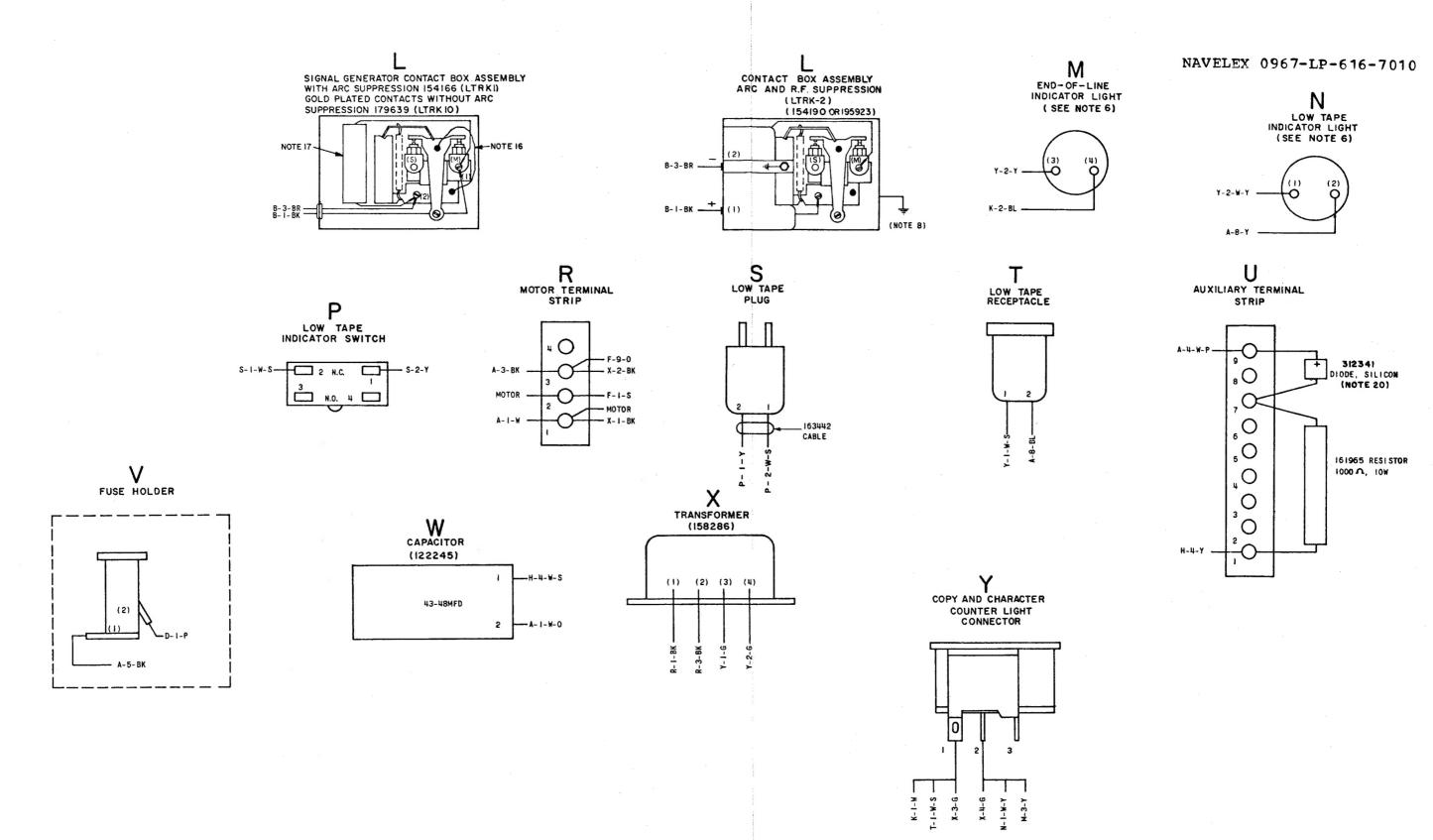
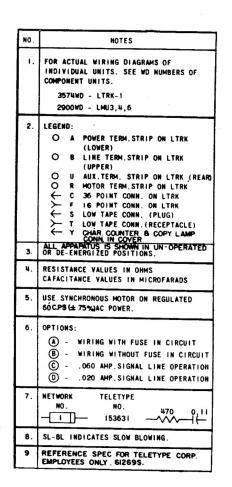
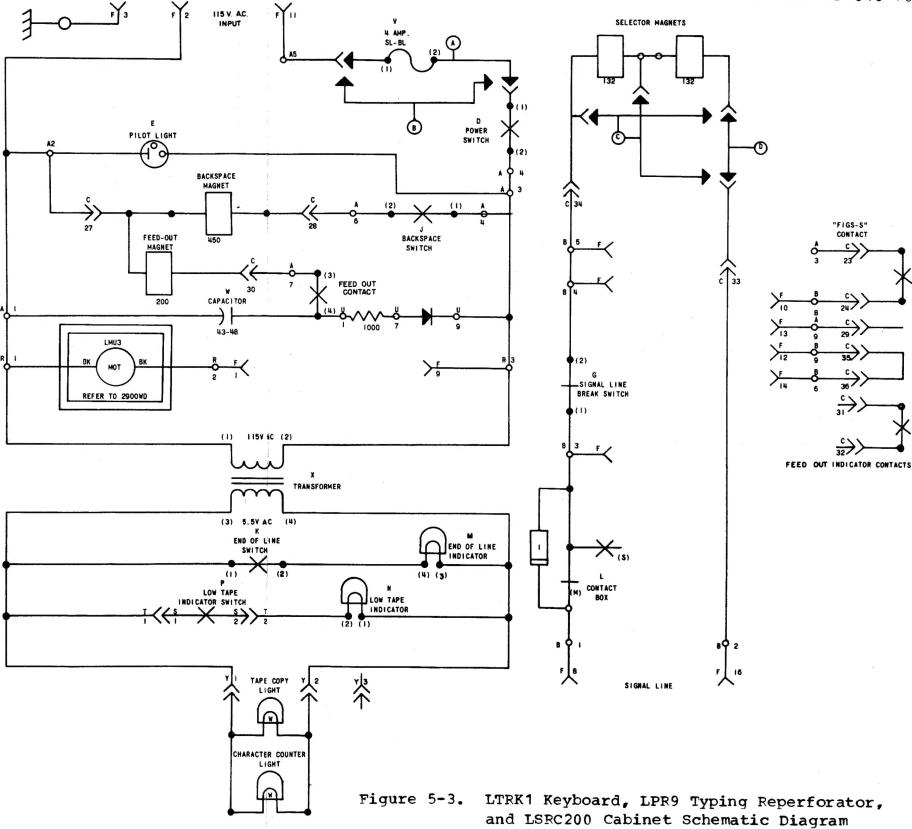
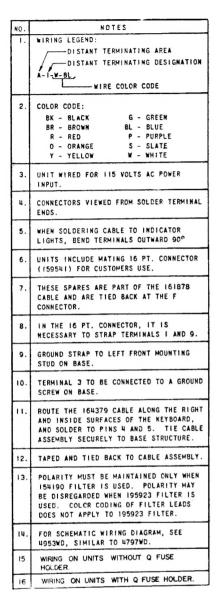
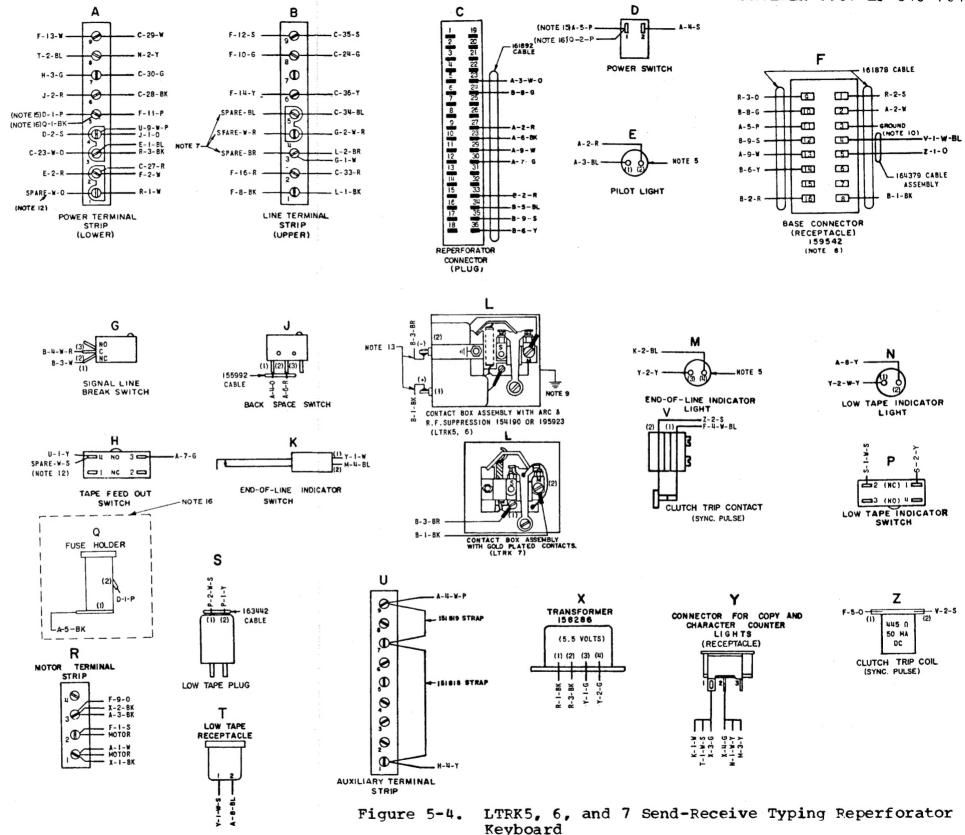


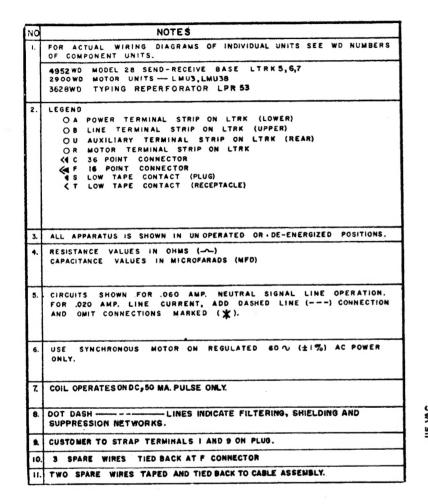
Figure 5-2. LTRK1, 2, and 10 Send-Receive Typing Reperforator Keyboard Wiring Diagram (Sheet 2 of 2)











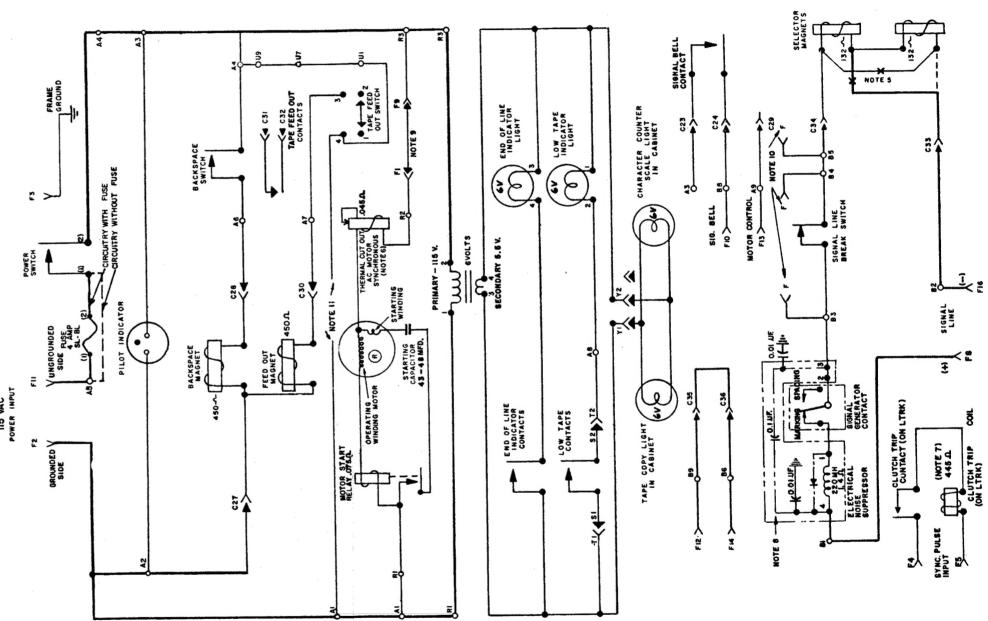
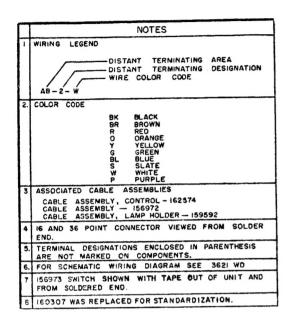


Figure 5-5. LTRK5, 6, and 7 Send-Receive Typing Reperforator Keyboard, and LPR53 and 9 Typing Reperforator Schematic Diagram



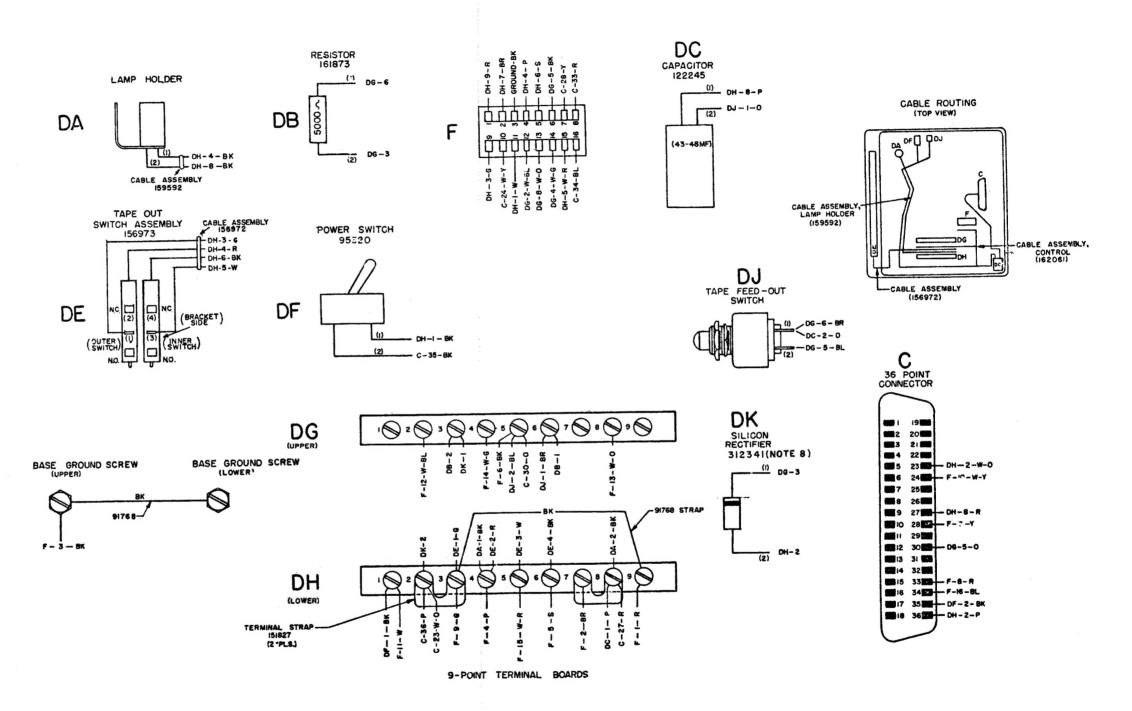


Figure 5-6. LRB8, 41, 49, and 57 Reperforator Base Wiring Diagram

\triangle	NOTES								
l.	FOR ACTUAL WIRING DIAGRAMS OF INDIVIDUAL UNITS SEE BELOW:								
	3628 WD REPERFORATOR 2900 WD MOTOR UNITS - LMU24,56 4354 WD TYPING REPERFORATOR BASE LRB 31,62								
2.	LEGEND: DG TERMINAL BLOCK (ON BASE) DH TERMINAL BLOCK (ON BASE) C 36-POINT CONNECTOR								
3.	ALL APPARATUS IS SHOWN IN UNOPERATED OR DEENERGIZED POSITIONS.								
4.	(A) RESISTANCE VALUES IN OHMS (A) (B) CAPACITANCE VALUES IN MICROFARADS (MFD)								
5.	CIRCUITS SHOWN FOR .020 AMP. NEUTRAL SIGNAL LINE OPERATION. FOR .060 AMP. LINE CURRENT, ADD DASH LINE () CONNECTION AND OMIT CONNECTION MARKED (-X-) ON SELECTOR MAGNETS.(SEE 3628 WD LPR ACT. WD.)								
6.	USE SYNCHRONOUS MOTOR ON REGULATED 60 ~ (±1%) A.C. POWER ONLY, GOVERNED MOTORS AND OTHER POWER CIRCUITS OPERABLE ON 50 TO 60 ~ UNREGULATED A.C.								
7	SL-BL INDICATES SLOW BLOWING.								
8.	FAN USED ON LRB 62 ONLY.								
9.	TOP TAPE OUT CONTACTS WIRING LEGEND.								
	LRB 31 FROM TO LRB 62 FROM TO DE 4 DG 6 DE 3 DG 3								

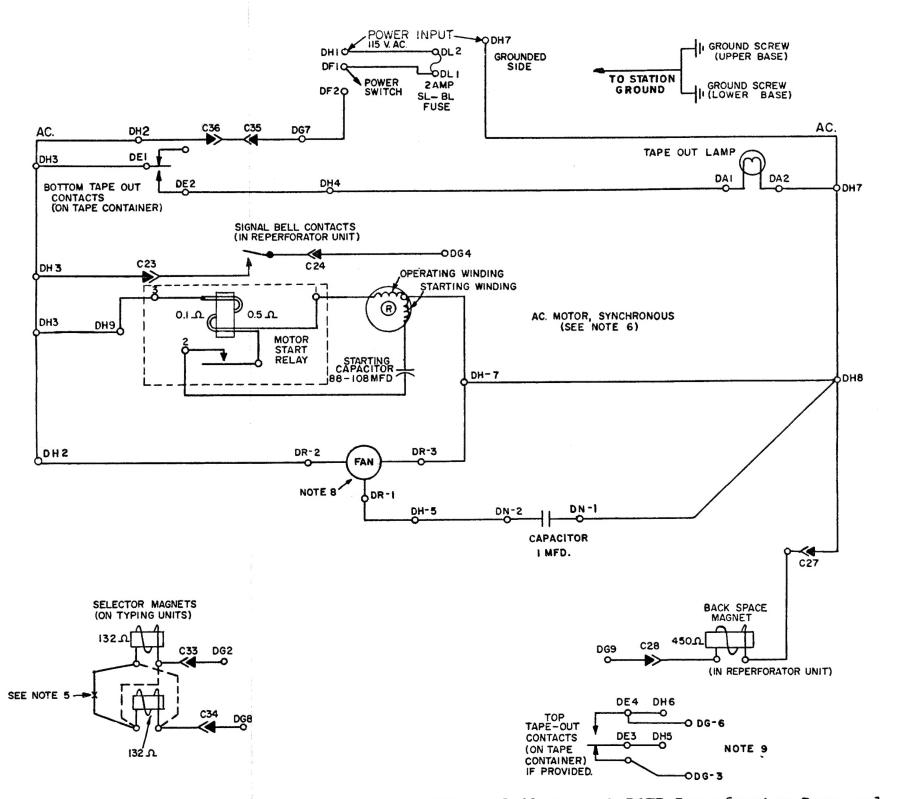
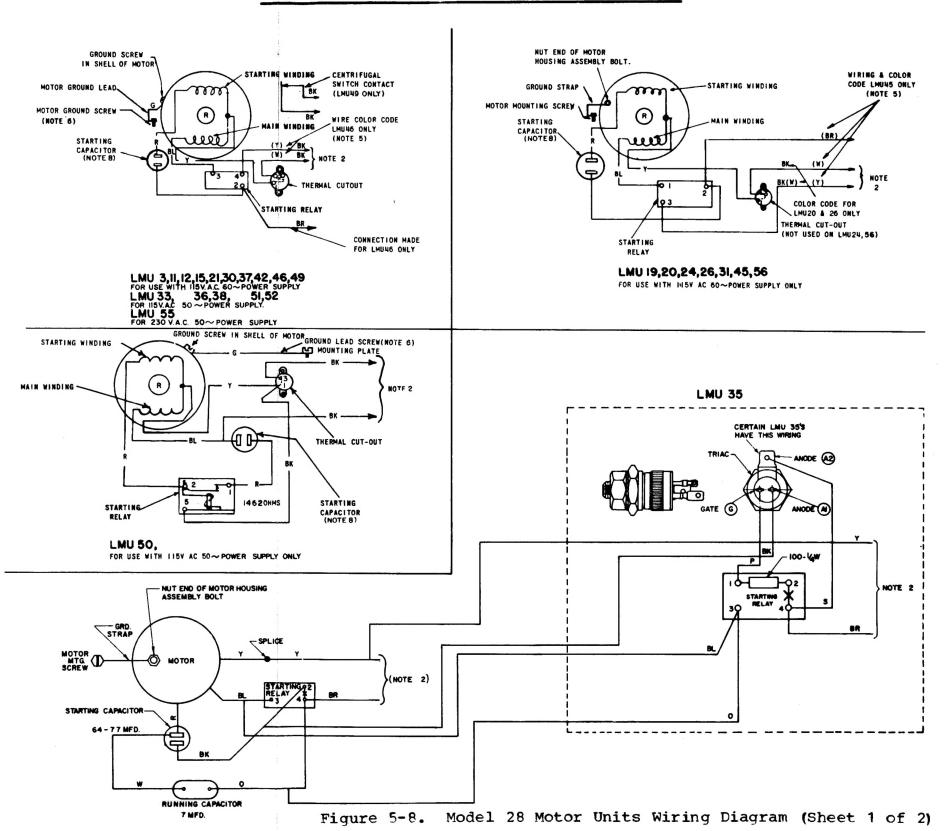


Figure 5-7. LRB31 and 62 Compact ROTP Reperforator Base and LPR40 Typing Reperforator Schematic Diagram

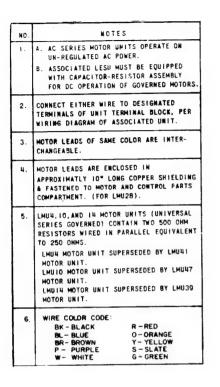
NAVELEX	0967-LP-	-616-7010
---------	----------	-----------

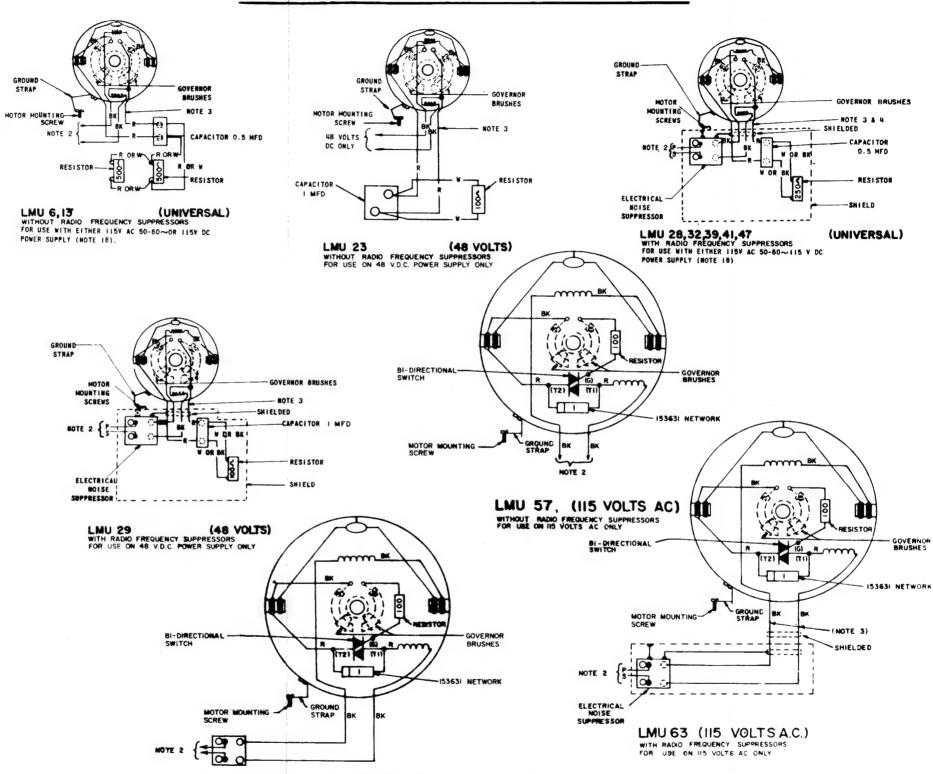
SYNCHRONOUS MOTO	OR L	JNI I S
------------------	------	---------

NO.		NOTES						
1.	SYNCHRONOUS MOTOR OPERATES ON REGULATED FREQUENCY (± 0.75%) MAXIMUM AC ONLY.							
2.	CONNECT EITHER WIRE TO DESIGNATED TERMINALS OF UNIT TERMINAL BLOCK, PER WIRING DIAGRAM OF ASSOCIATED UNIT							
3.	MOTOR LEADS OF SAME COLOR ARE INTER- CHANGEABLE.							
5.	EXTERNAL MOISE SUPPRESSION NETWORK CONSISTING OF 100 OHM, 1/2 WATT RESISTOR IN SERIES WITH 0.25 MFD IN Y CAPACITOR COMMECTED ACROSS YELLOW AND BROWN WIRES. (FOR LMUUS, 185)							
6.	MOTOR GROUND LEAD (GREEN) TERMINAL MUST BE FASTENED TO MOUNTING CRADLE OF MOTOR UNDER A SEPARATE GROUND SCREW ONLY. A SCREW USED FOR ANOTHER PURPOSE CANNOT BE USED FOR GROUNDING (UNDERWRITERS LABORATORIES REQUIREMENT).							
7								
8	LMU	STARTING CAPACITOR VALUE						
	3,15,21,30,33, 36,37,38,42, 46,49,51,52	43 – 48 MFD						
1								
	11,12	170-226 MFD						
	11, 12	170 - 226 MFD 64-77 MFD						
	35 55	64-77 MFD 15-18 MFD						
	35	64-77 MFD						



SERIES GOVERNED MOTOR UNITS





LMU 6 0,61,64 (115 VOLTS AC)

Figure 5-8. Model 28 Motor Units Wiring Diagram (Sheet 2 of 2)

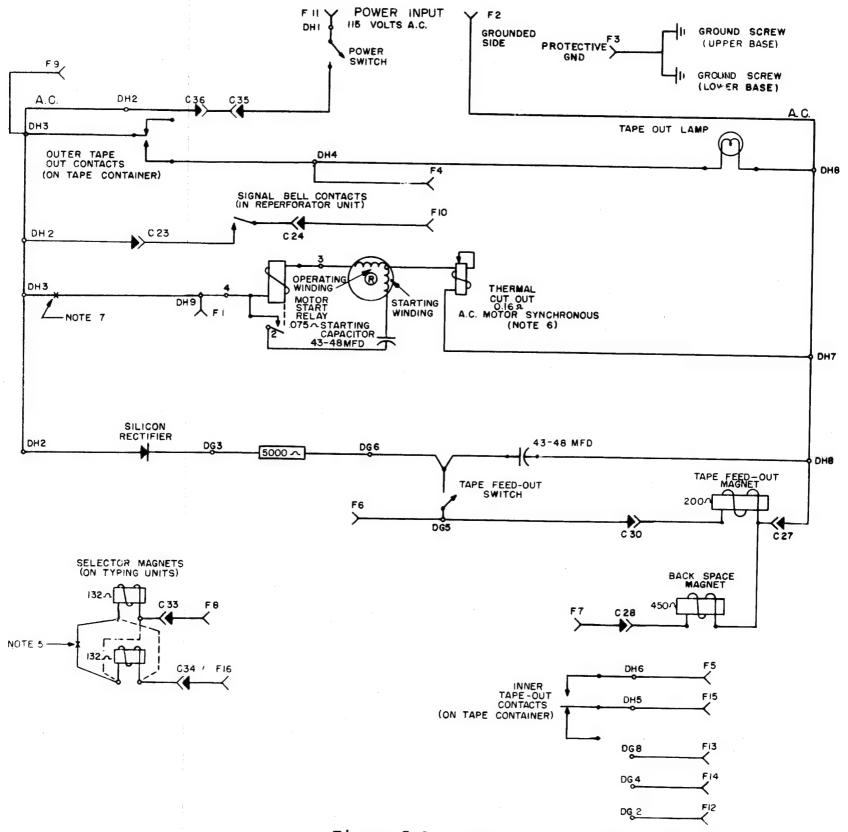
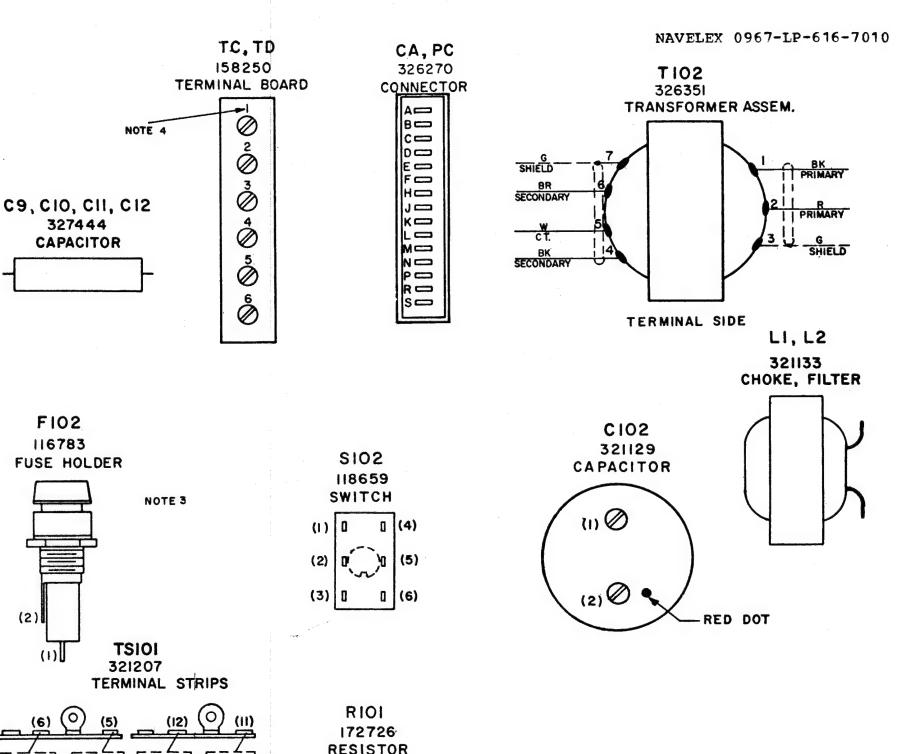
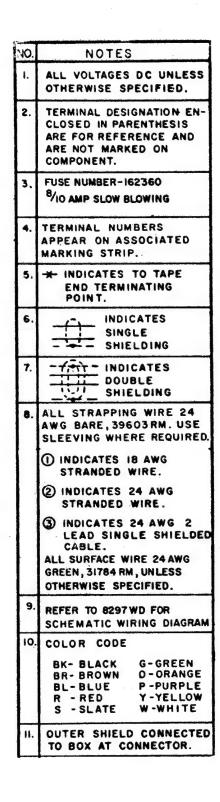
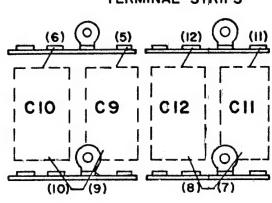


Figure 5-9. LRB8, 41, 49, and 57 Reperforator Base Wiring Diagram







(2)

(1)

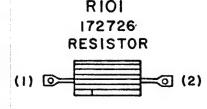


Figure 5-10. 321230 Electrical Service Assembly (Clutch) Wiring Diagram (Sheet 1 of 4)

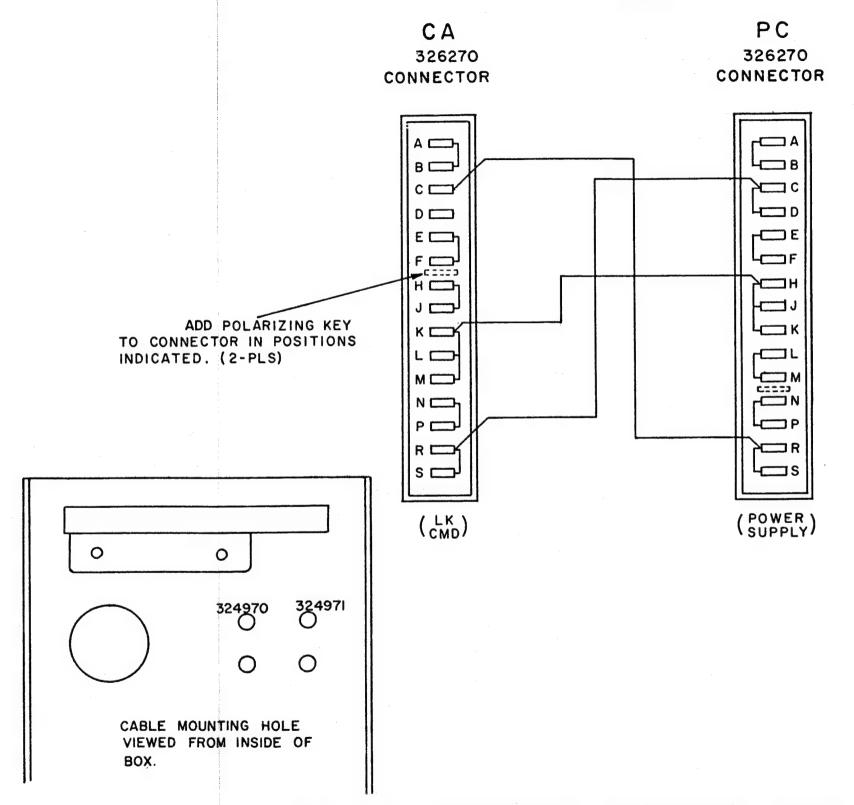


Figure 5-10. 321230 Electrical Service Assembly (Clutch) Wiring Diagram (Sheet 2 of 4)

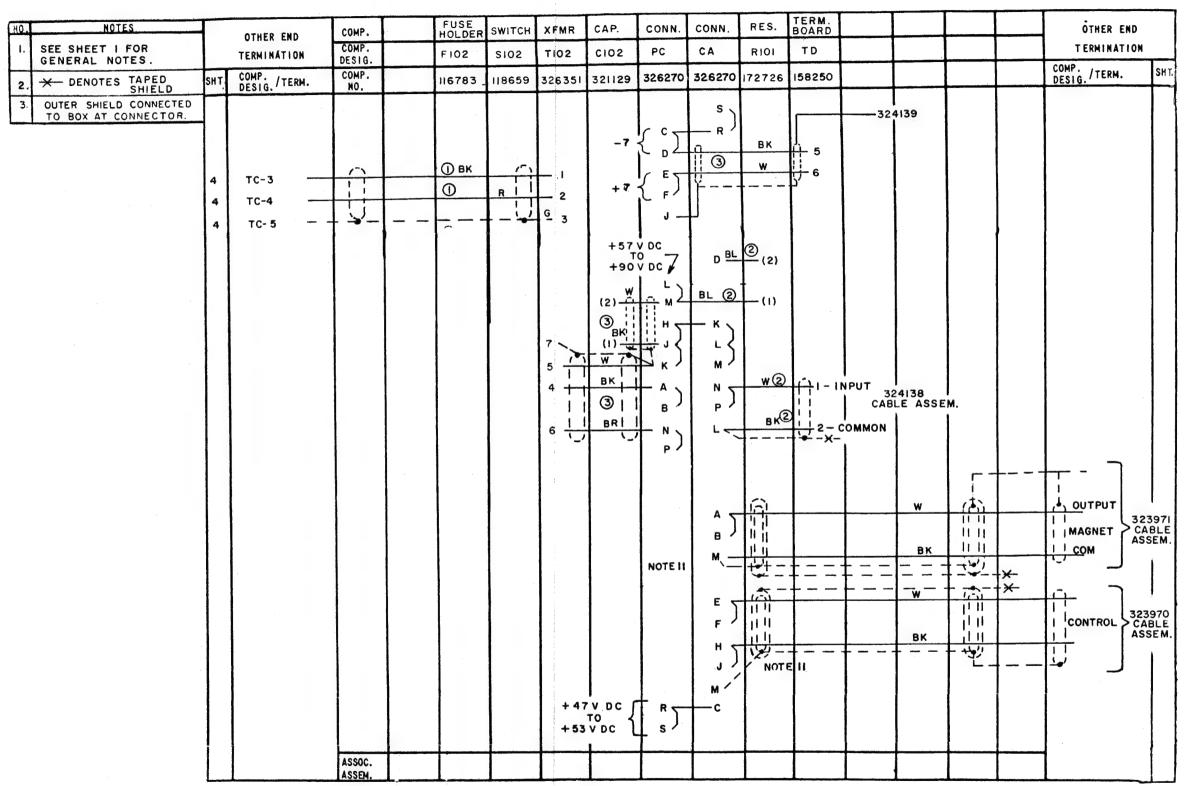


Figure 5-10. 321230 Electrical Service Assembly (Clutch) Wiring Diagram (Sheet 3 of 4)

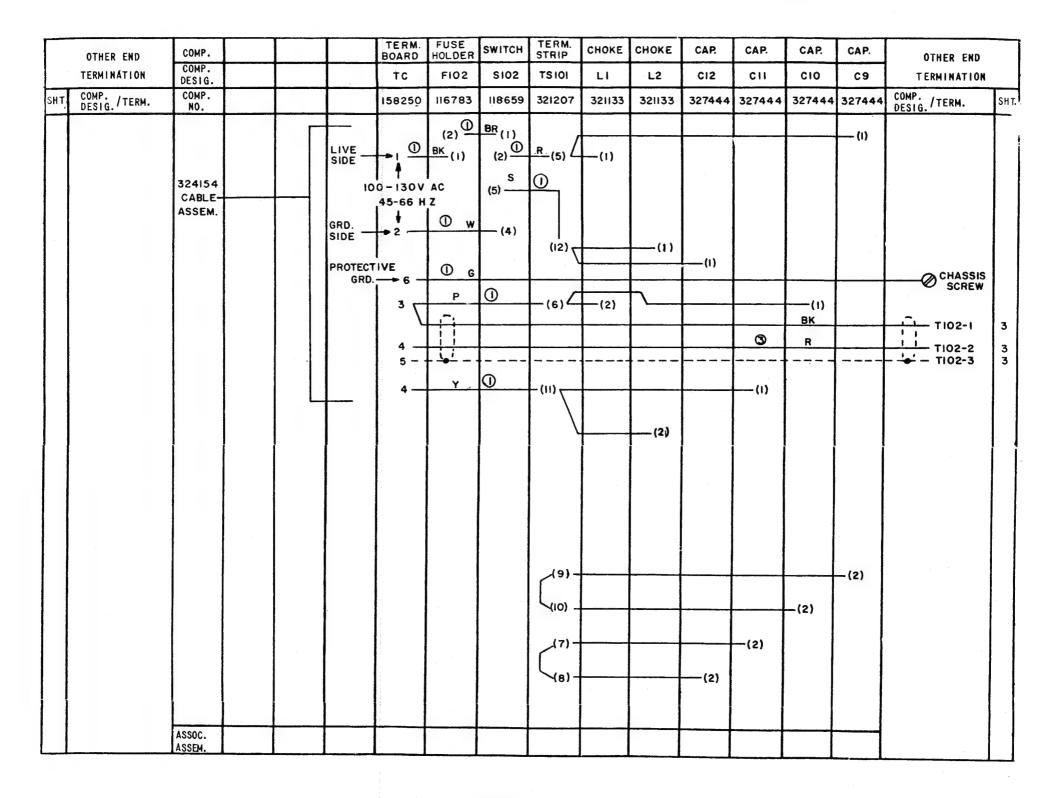
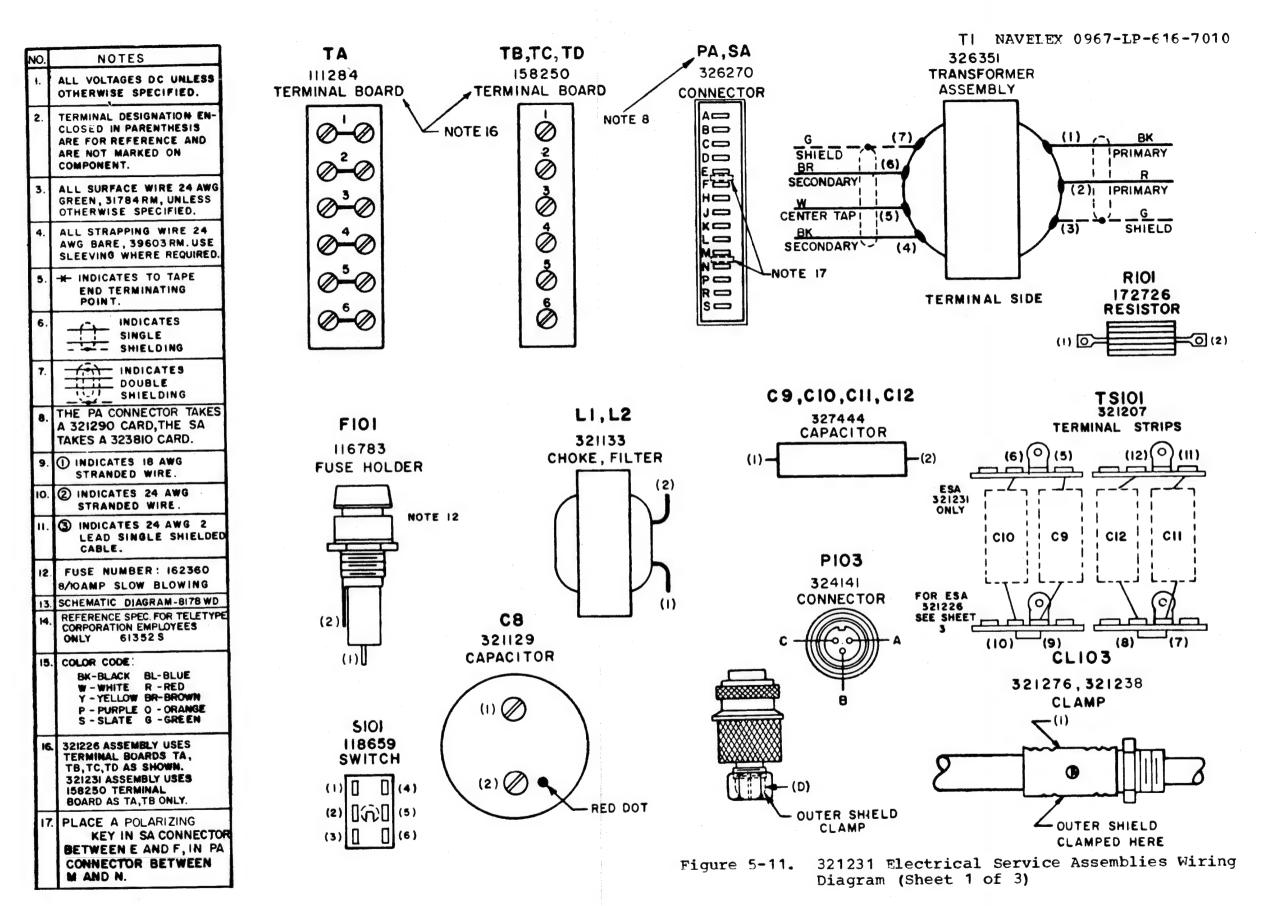


Figure 5-10. 321230 Electrical Service Assembly (Clutch) Wiring Diagram (Sheet 4 of 4)



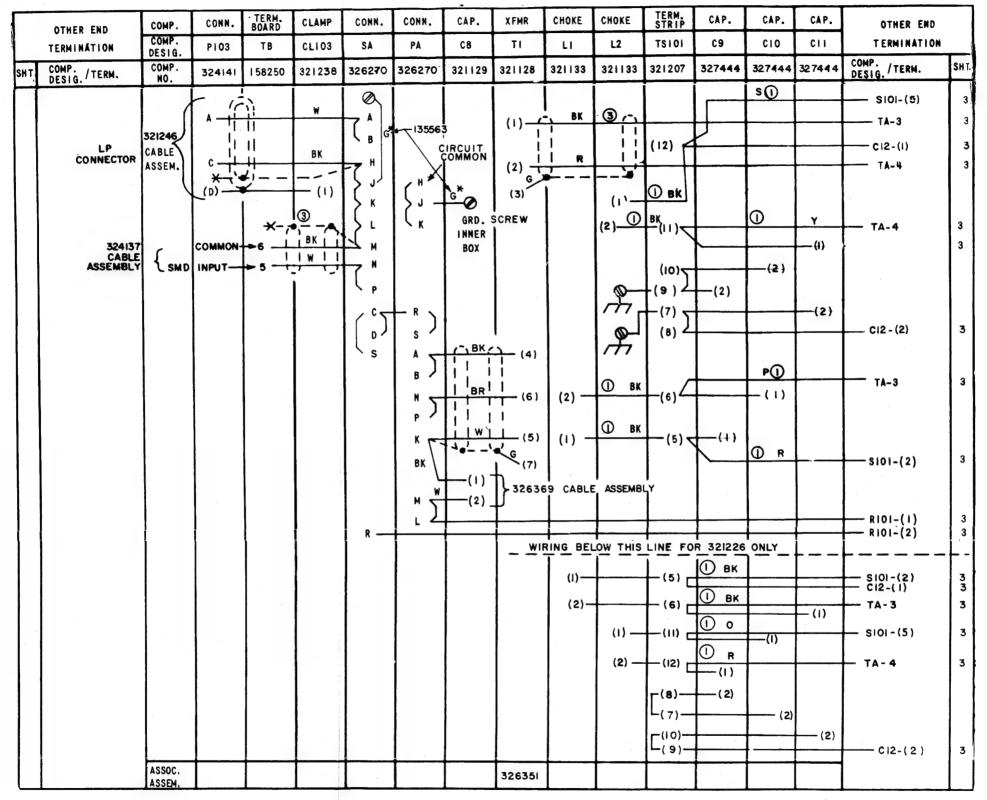


Figure 5-11. 321231 Electrical Service Assemblies Wiring Diagram (Sheet 2 of 3)

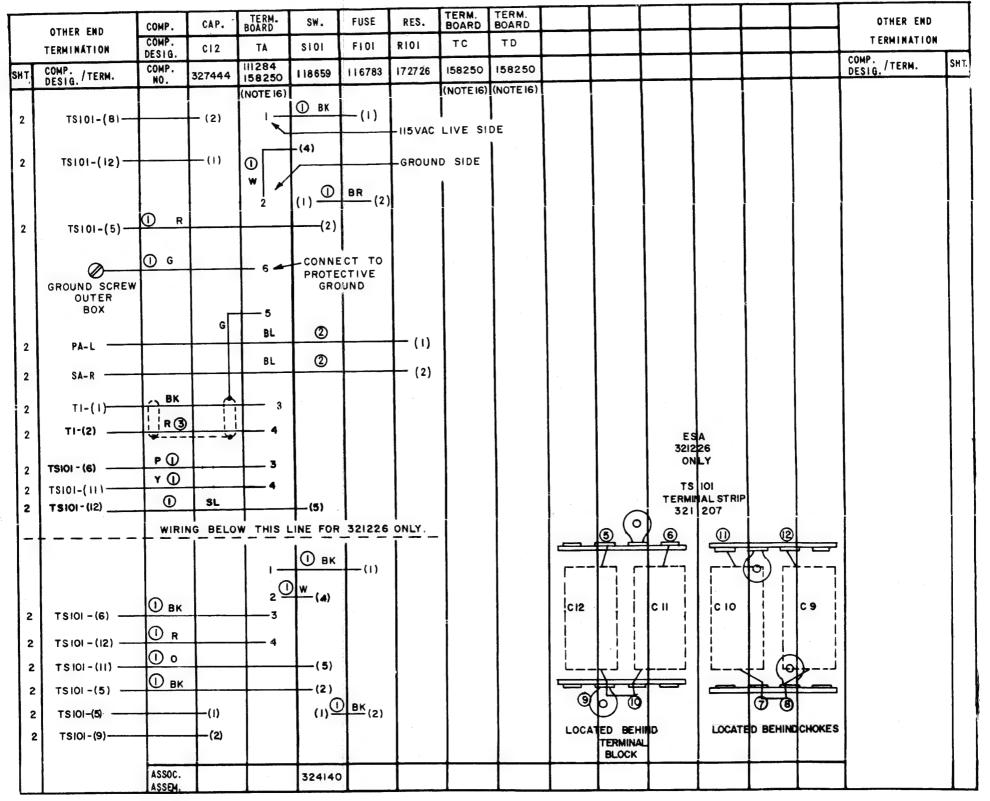
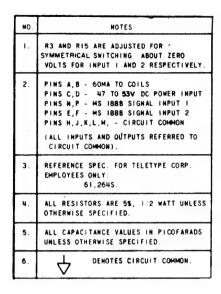


Figure 5-11. 321231 Electrical Service Assemblies Wiring Diagram (Sheet 3 of 3)



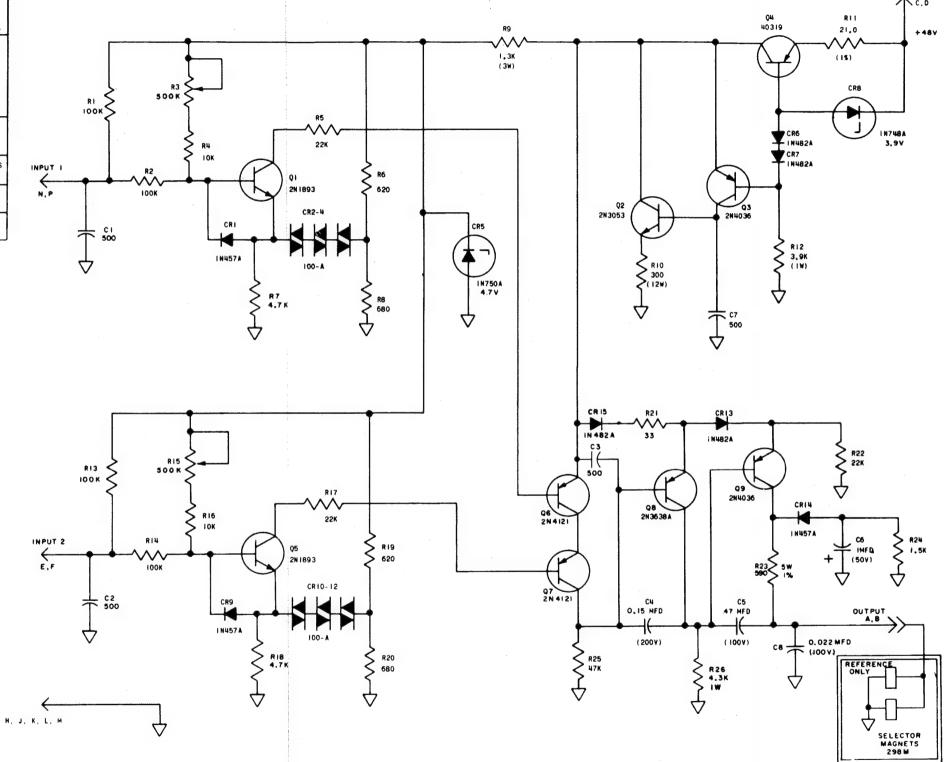


Figure 5-12. 323810 Selector Magnet Driver with Signal Combiner Schematic Diagram

10.	HOTES
1.	
2.	CAPACITANCE VALUES IN MICROFARADS, UNLESS OTHERWISE SPECIFIED.
3.	INDICATES FEMALE AND INDICATES MALE TERMINALS ON CONNECTORS
4.	SE-BL INDICATES SLOW-BLOWING.
5.	indicates shielded wire.
6.	ALL VOLTAGES DC. UNLESS OTHERWISE SPECIFIED.
7.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR PEFERENCE AND ARE NOT MARKED ON COMPONENT.
8.	WIRING DIAGRAM 8137WD
9.	RESISTANCE VALUES IN OHMS, UNLESS OTHERWISE SPECIFIED.
10	DENOTES COMMON PETURN TO CIRCHIT GROUND.
11	REFERENCE SPEC FOR TELETYPE CORPORATION EMPLOYEES ONLY 61352 S
12.	INDICATES DOUBLE SHIELDED WIRE

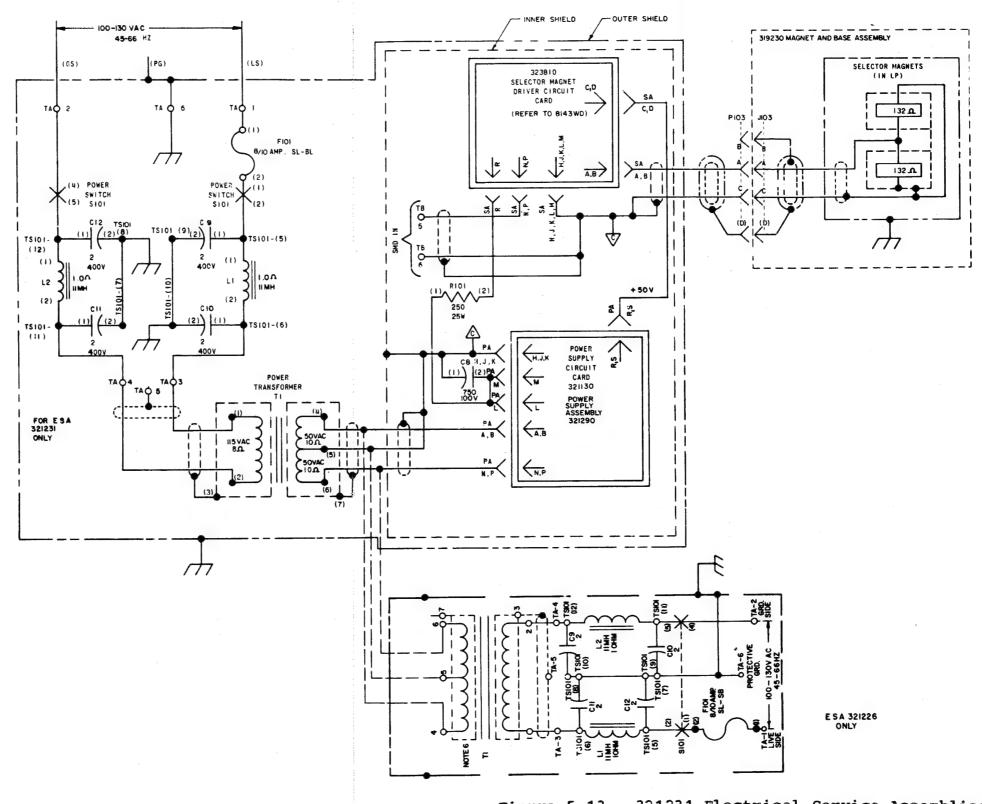
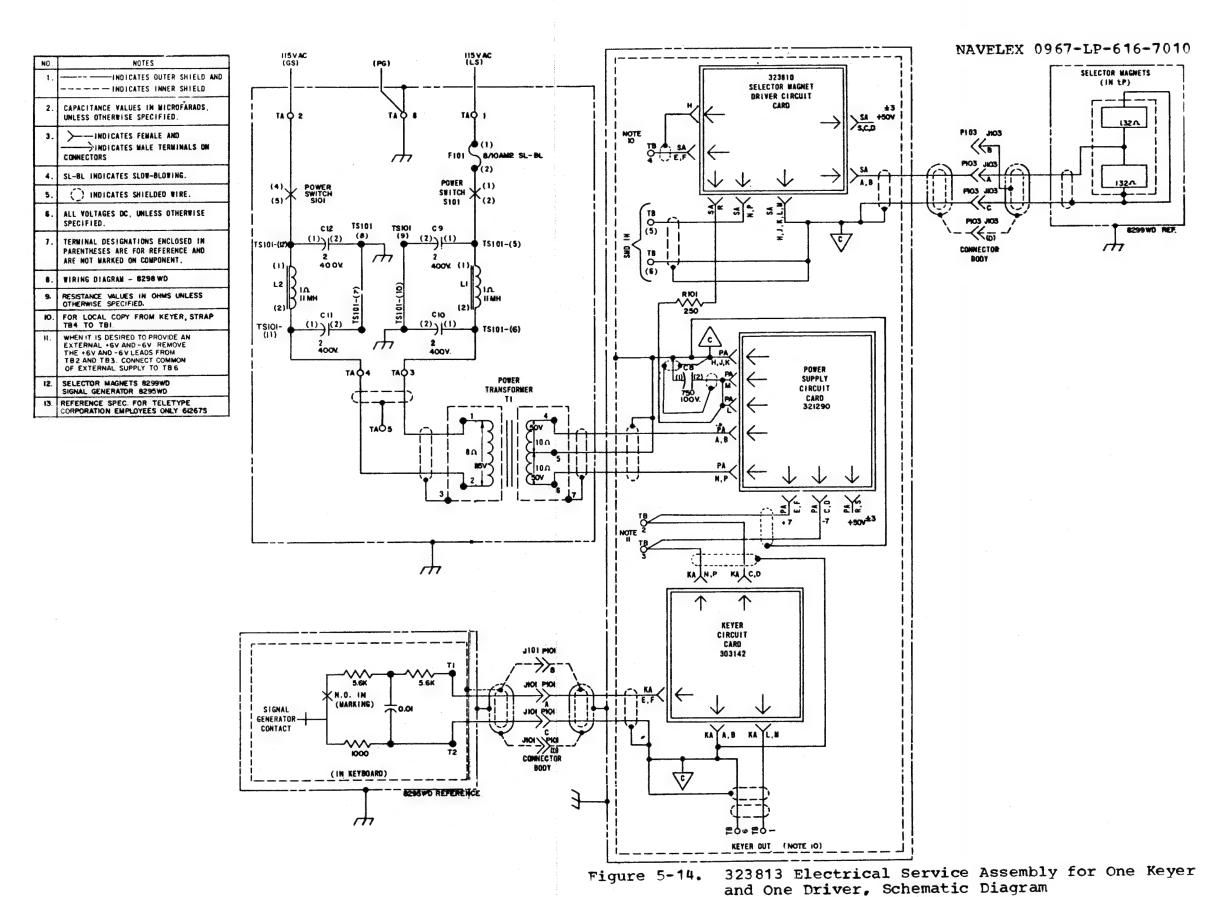


Figure 5-13. 321231 Electrical Service Assemblies



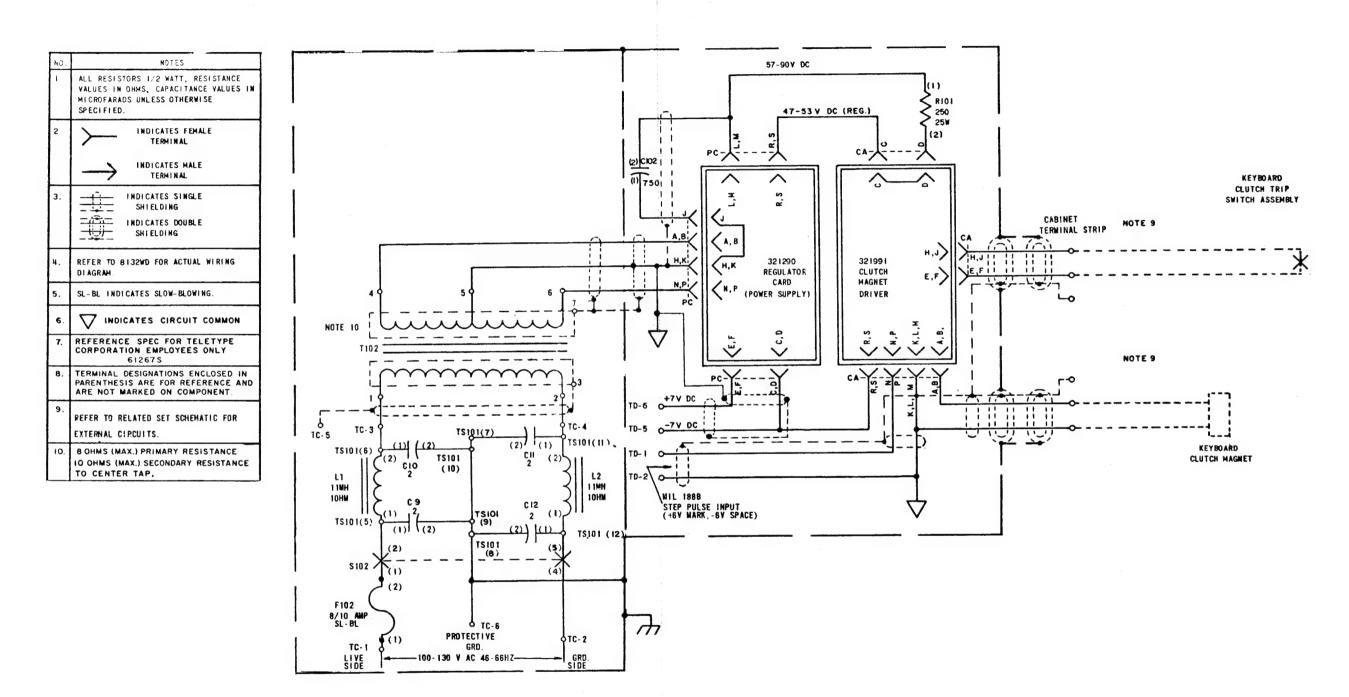
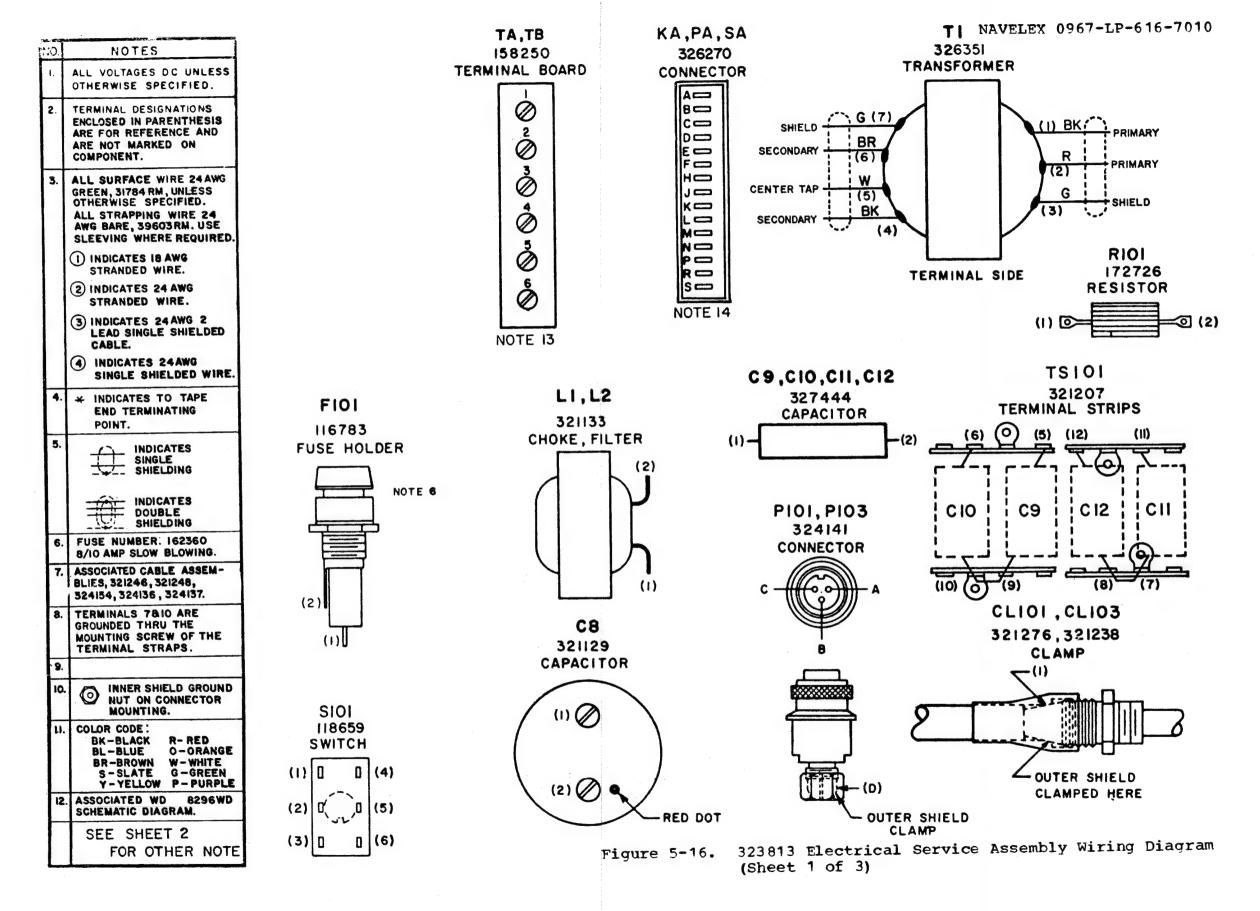


Figure 5-15. 321230 Electrical Service Assembly Schematic Diagram

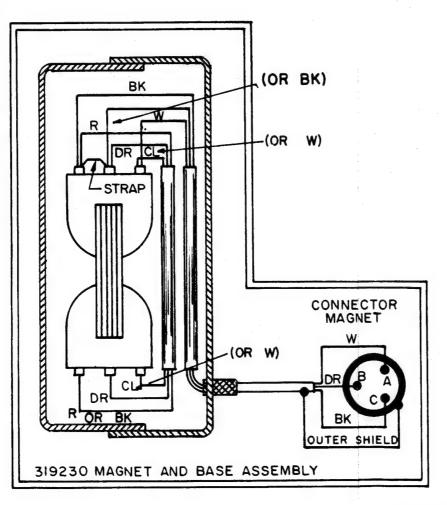


								į									FUCE		
NO.	NOTES		OTHER END	COMP.	CONN.	CONN.	TERM BD	TERM BD	CLAMP	CONH	CLAMP	CONN	CONN	SWITCH	XFMR	CAP	FUSF HOLDER	OTHER END	
١	REFER TO SHEET I FOR NOTES		TERMINATION	COMP. DESIG.	P 103	PIOI	TC	TB	CL103	SA	CLIOI	KA	PA	\$101	TI	C 8	FIOI	TERMINATION	
13.	WITHT 6 CLOSES ! TO PUSE.	SHT	COMP. /TERM.	COMP.	324141	324141	158250	158250	321277	326270	321277	326270	326270	118659	326351	321129	116783	COMP. /TERM.	SHT.
	"TB" BOARD HAS# 6 CLOS- EST TO FILTER CHOKES.											H >		(1) ^(LS)	BR R	0	(2)		
14.	CONNECTOR SHOULD BE MOUNTED WITH "S" AT CAPACITOR MOUNTING SIDE. PA SHOULD BE MOUNTED CLOSE TO TRANSFORMER AND KA SHOULD BE MOUNTED IN THE CENTER. POLARIZING				32413 CABL ASSEME	Ēζ	OUTPUT-		BK			A)	© 6 K	(2) —			(I) 8K	T\$ 101-5 TA - (1)	3
15	KEYS SHOULD BE INSERTED BETWEEN E AND F OF SA, BETWEEN J AND K OF KA AND BETEEN M AND N OF PA. WHEN IT IS DESIRED TO USE										cc	+ 57 TO - + 90 V	- <u>"</u> Σ	BK W	3	(1)	BL(2)	326369 CABLE ASSEMBLY	3
10.	EXTERNAL BATTERY, REMOVE TAPE AND TIE THESE LEADS CONNECT+BATTERY (6.6 TO 7.8V) TO TERMINAL TB2 AND -BATTERY (6.6 TO 7.8V) TO TERMINAL TB3. CONNECT				324 CAB ASSEM	LES	COMMON	6 ¥	BKI	,') - - 	①	E							
	COMMON OF SUPPLY TO TB6 IF + 6V IS SUPPLIED OUTPUT OF KEYER WILL DROP TO + 4.5V.		LK CONNECTOI		ABLE MBLY	A — c — B ~		BK			— (I)		1.5	BK.	G (7) (4)				
			CONNECTOR	1246 ABLE EMBLY	c ≥	(- 	<u>B</u> K	- 100		J ,			,5	BR W	(6)	326353 CABLE ASSEM.			
					(D). ~	† 7				s ⁸	NOTE3	B	R	+47V TO 53V	1 (1) -	3	BK	TA-3 326352 TA-4 CABLE ASSEN	3
							324135 CABLE ASSEM	2 — 3 —	BK()	D	3				(3)			V _TA-5	
										R -		P	-	(5)	2)	s	0	TS101-12	3
							326396 STRAF	4 4	R 4	TH UE-		-	-+×	(4) - (G	S)	w	0	TA-2	3
							324138 CABLE ASSEN	NOTE I	BK, ← -		3		1 1(-7)						
				10000		-			+	+	+-	+	+ > 0	+	1	1	1	1	
				ASSOC.									_1					Wiring Dia	

	OTHER END	COMP.	TERM BD	CHOKE	CHOKE	TERM STRIP	CAP	CAP	CAP	CAP	RES.		 		OTHER END	
	TERMINATION	COMP. DESIG.	TA	LI	L2	15101	C 12	CII	C10	C9	RIOI		 ,			SHI
SHT	COMP. / TERM.	COMP.	111284	321133	321133	321207	327 4 4 4	327444	327444	327444	172726		 		COMP. /TERM.	- 3:11
		1	R	0		(5) —				_ (I)	(1)	BL@	 		PA-L	٤
2	5101 - (2) - F101 - (1) -	BK ①		(1) —	вк	(9) _				(2)	(2) —	BL②	 		- SA-R	2
2	Ø	G (I)	- 6			(10)			(2)							
	GROUND SCREW OUTER BOX		/	LIVE	SVAC SIDE	(7)	NOTE 8	(2)		}						
	00.12.1.00.1.				1	(8)	(2)	1								
	CONNECT TO	1		①s	(1) B	1 \	-(1)		İ							
2	GROUND S 101 (5)				ВК	(12)										İ
		, BK	<u>ات ء ــ</u>	(2) —		D (6)-			(1)						•	
2	TI - (I) -	! ! R	1 3 -		0	(11)			``'							
2	T1 - (2) -	-			(2) B	1 /	\	 (1)		1						
			LG_5													
		w		115VAC												
2	S 101 (4)		2 -	GROUND SIDE												
								l								
								ľ								
						:										
							}					1				
												1				- 1
													ļ		4	
	VI ni	ASSOC.	-											<u> </u>	1	1

Figure 5-16. 323813 Electrical Service Assembly Wiring Diagram (Sheet 3 of 3)

NO.	NOTES
1	CONNECTOR VIEWED FROM SOLDER TERMINAL END.
2	SELECTOR MAGNETS ARE WIRED FOR .060 AMPERE OPERATION OR USE WITH 323810 SELECTOR MAGNET DRIVER.
3	COLOR CODE R- RED W- WHITE BK- BLACK
4	REFERENCE SPEC. FOR TELETYPE CORPORATION EMPLOYEES ONLY 61213S
5.	LEGEND: DR-DRAIN CL-CLEAR INSULATION
6.	REFER TO APPROPRIATE SET SCHEMATIC WIRING DIAGRAM FOR J CONNECTOR NUMBER.



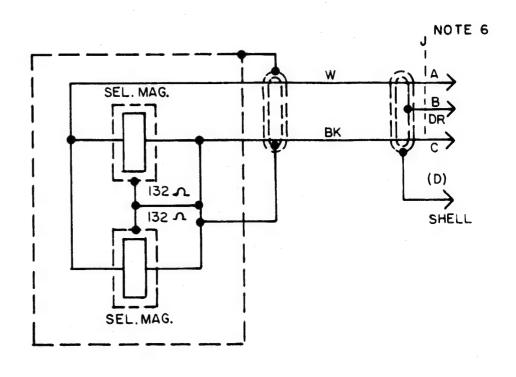
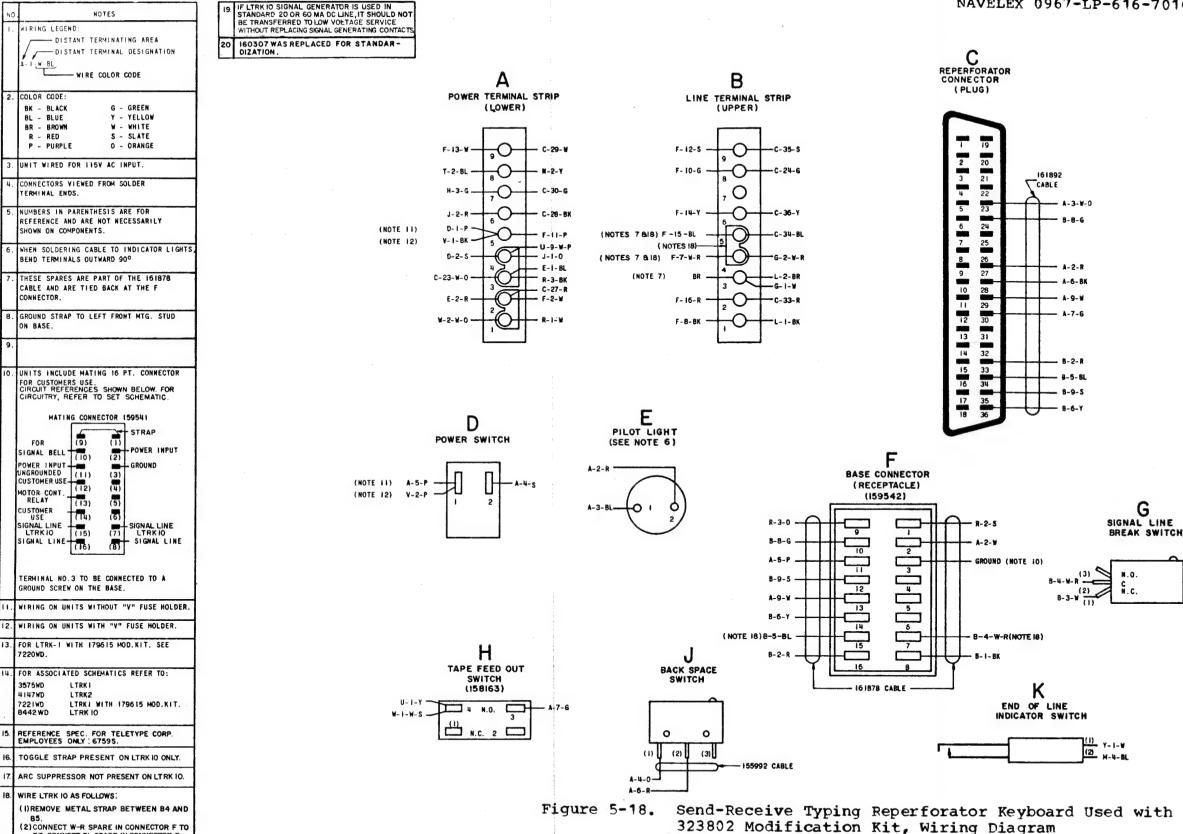
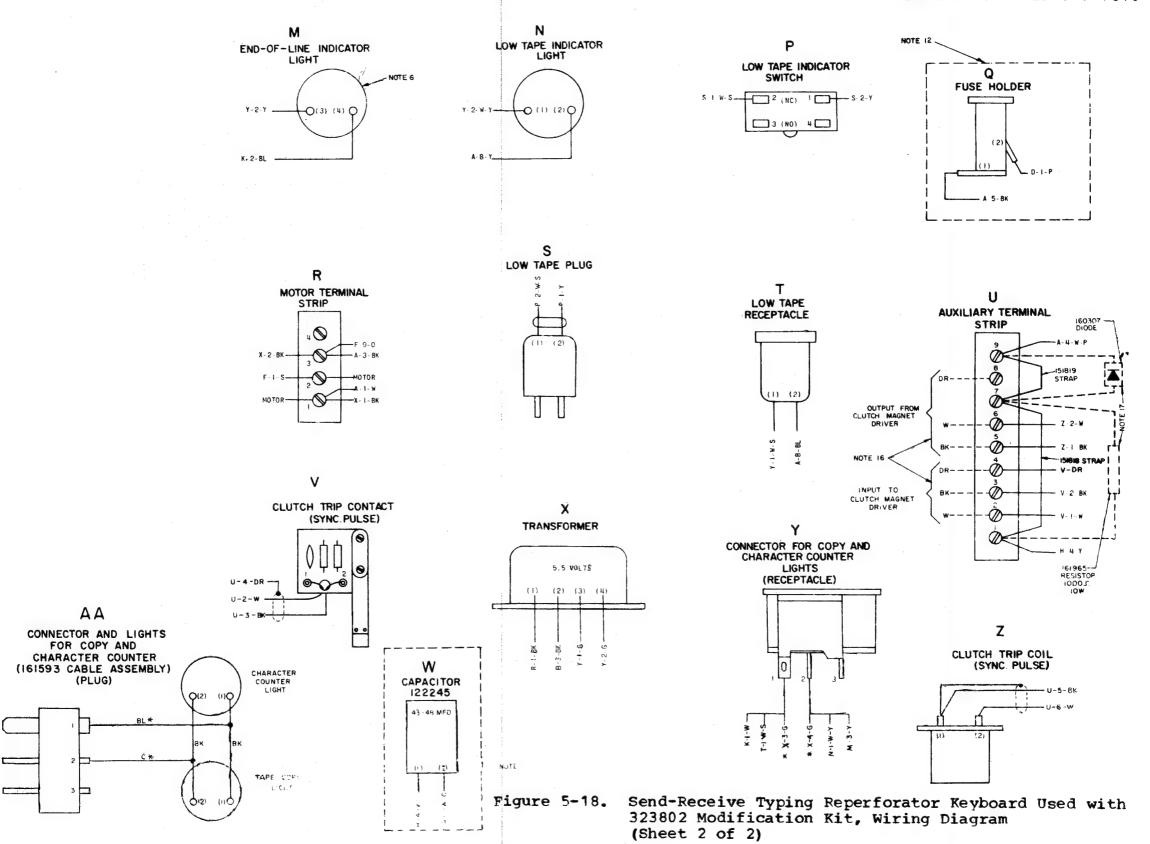


Figure 5-17. 319204 Selector Assembly Schematic Diagram and Wiring Diagram

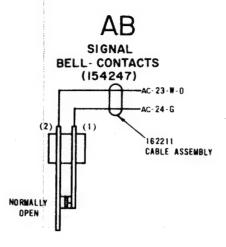


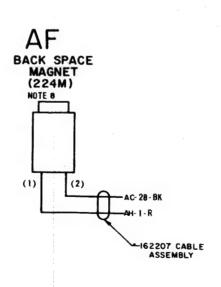
(Sheet 1 of 2)

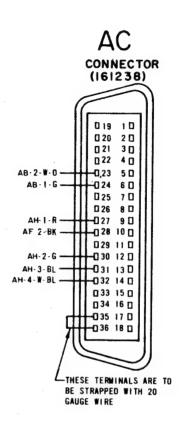
F7. CONNECT BL SPARE IN CONNECTOR F



NO	NOTES							
1	WIRING LEGEND. DISTANT TERMINATING AREA DISTANT TERMINATING DESIGNATION F-4-W-BL WIRE COLOR CODE							
2.	COLOR CODE BK - BLACK G - GREEN BR - BROWN BL - BLUE R - RED P - PURPLE O - ORANGE S - SLATE W - WHITE Y - YELLOW							
3.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENTS.							
4.	TERMINALS ON CONNECTOR SHOWN AS VIEWED FROM SOLDER END							
5.	NORMALLY OPEN (ND) AND NORMALLY CLOSED (NC) CONTACTS ARE SHOWN WHEN THE REPERFORATOR IS IN THE STOP (IDLE) POSITION.							
6.	GENERAL NOTE: WIRING OF INDIVIDUAL COMPONENTS IS DETERMINED BY REFERRING TO THE CABLE ASSEMBLIES SPECIFIED ON THE UNIT B/M.							
7.								
8.	FOR WIRING OF BACKSPACE MAGNET ON LAK KEYBOARD MOUNTED PERFORATORS REFER TO ASSOCIATED LAK WIRING DIAGRAM.							
9	ASSOCIATED SCHEMATIC DIAGRAMS 8443WD.							







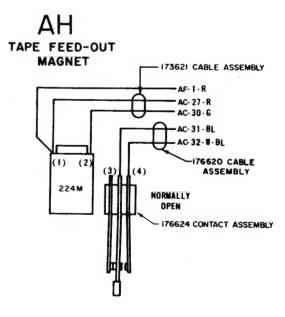
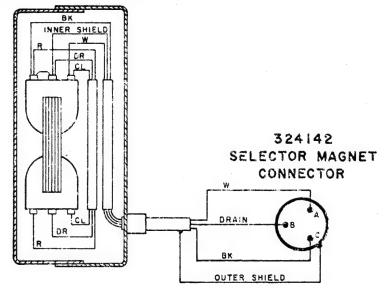
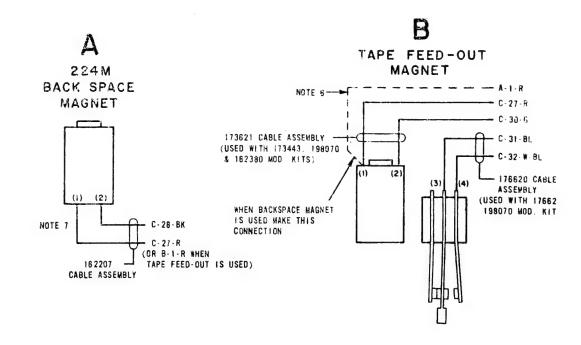


Figure 5-19. LPR Used with Modification Kit 323802 for Low-Level Operation, Wiring Diagram

319230 SELECTOR MAGNETS





CONNECTOR 161238 019 10 20 021 022 30 40 50 0-2-W-0-D-1-G-023 50 024 60 025 70 026 80 A-1-R OR B-1-R-A-2-BK--027 90 -028 100 029 110 8-2-G-030 120 031 130 032 140 033 150 034 180 -035 170 -036 160 - THESE TERMINALS ARE TO BE STRAPPED USING 20 GA WIRE

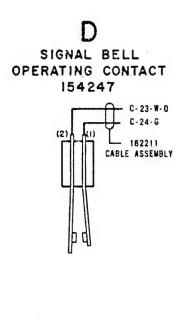


Figure 5-20. LPR and LRPE Typing and Non-Typing Reperforator with Selector Assembly, Wiring Diagram

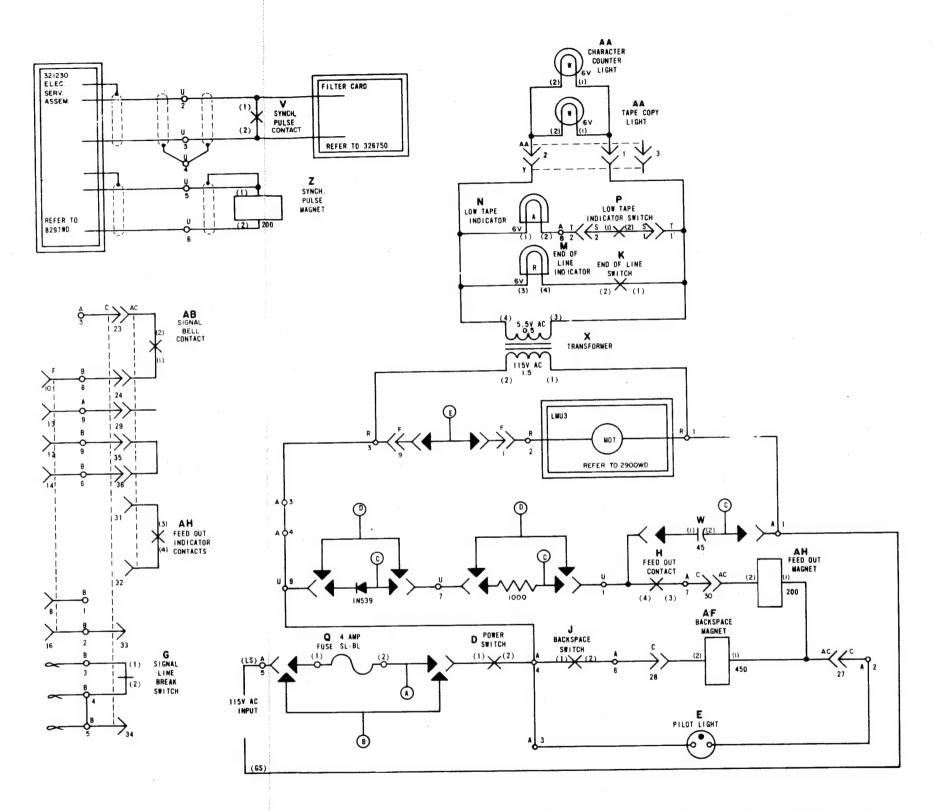
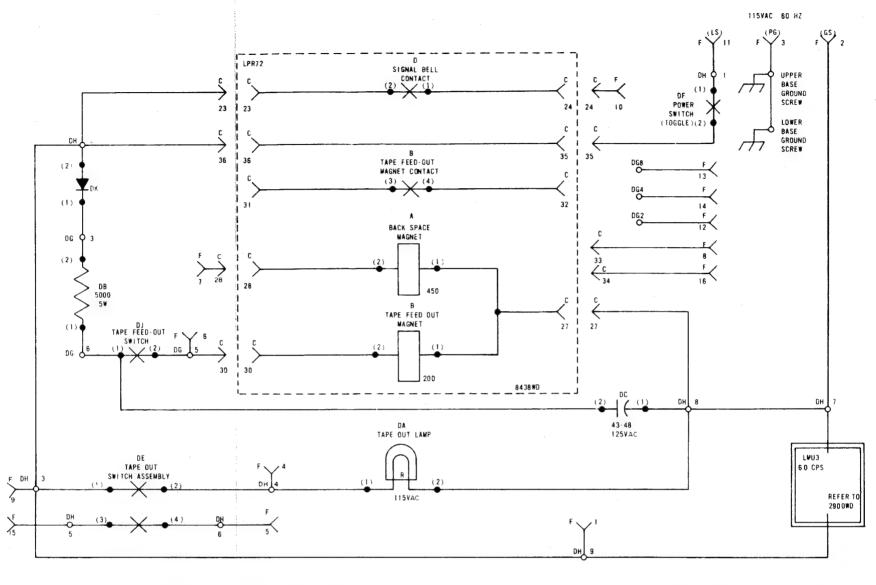


Figure 5-21. Send-Receive Typing Reperforator Set when Used with 323802 Modification Kit Schematic Diagram



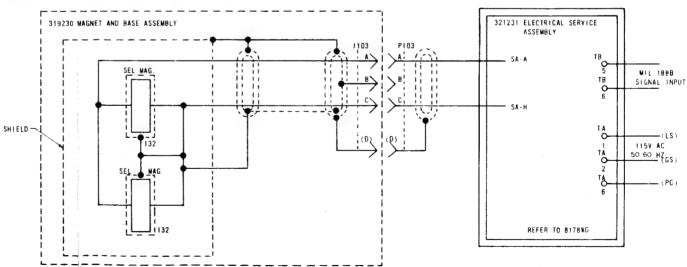
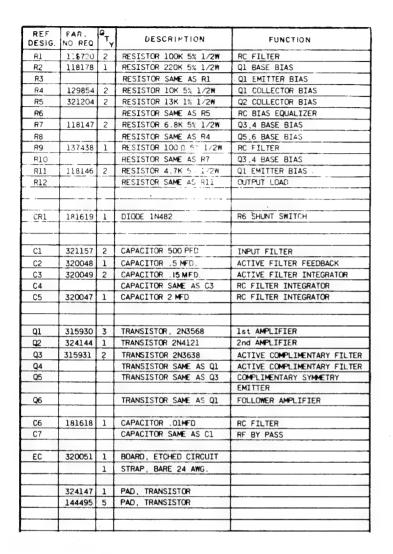


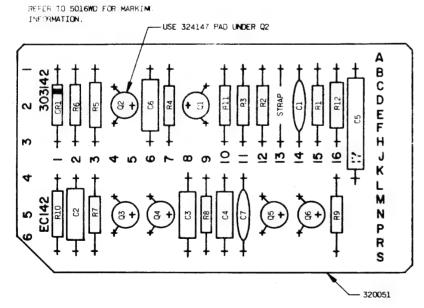
Figure 5-22. Receive-Only Typing Reperforator Set with Low-Level RFI Components Schematic Diagram

POLAR LINE KEYER ± 6V

NOTE: CARD CONNECTIONS ARE REPRESENTED BY LETTERS
TEST POINTS ARE REPRESENTED BY NUMBERS



NOTE: MANUFACTURE PER MR200L



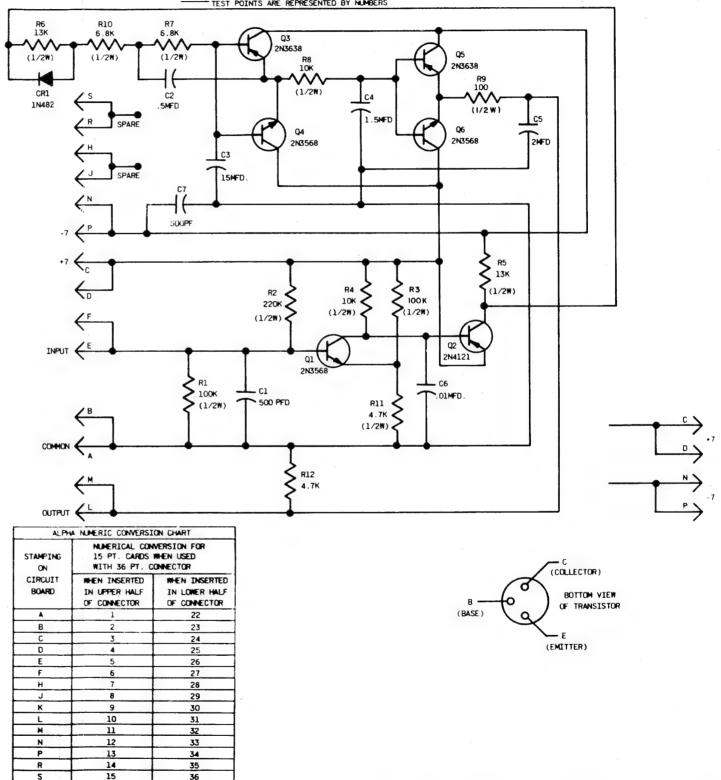


Figure 5-23. 303142 Polar Line Keyer ±6V Schematic Diagram

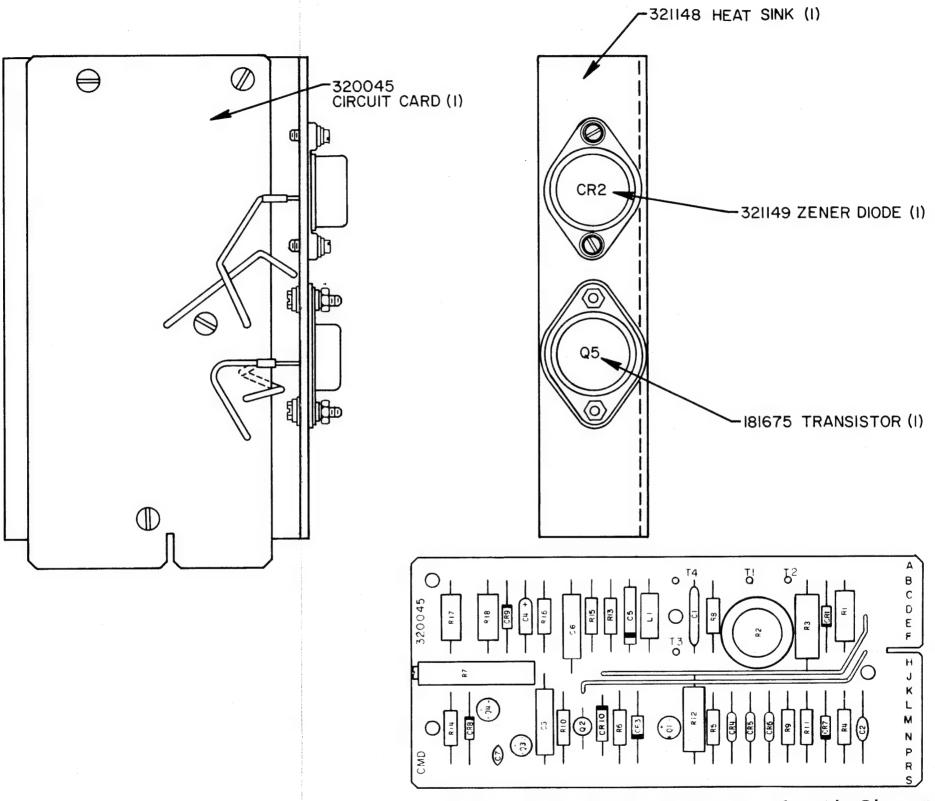


Figure 5-24. 321991 Circuit Card (CMD) Schematic Diagram (Sheet 1 of 2)

USED	ON	351991
,	10	3/M

321991		ASS	SEM	BLY, CIRUIT CARD	(CMD)
B/M	REF.	TELETYPE			LOCATING FUNCTION
	DESIG.	PART NO.	QTY.	NAME AND DESCRIPTION	
	RI	327/93	1	RESISTOR, IB OHM 3	REG CURRENT LIMITER
	R2	#82773	1	POTENTIONETER, 3 OHM,2.5%	
	R3	321155	<u>'</u>	RESISTOR, 2K. 2W. 57 .	CRI CURRENT LIMITER
	R4	118720		RESISTOR, 100K. 1/2 W.5%	QI OPEN LINE BIAS
	R5	118720	1	RESISTOR, 100K, 1 2W,5%	INPUT RESISTOR
	R6	129854		RESISTOR, IOK, I 2W	Q1 B:AS
	R7	321160	1	POTENTIOMETER, 5M	Q1 BIAS
	P.8	118146	1	RESISTOR, 4.7K, 1 2W.5"	O MITTER RES
	R9	129850	1	RESISTOR, 680 0HM, 1 24,5*	
	RIO	321258		RESISTOR, 20k, 1 2w. 5"	L' LCAD FES
	RHI	137604	-	RESISTOR, 620 OHM, 1 2W. 5%	
	R12	321292	1	RESISTOR, 1 3K, 2W. 5°	CR7 CURRENT LIMITE
	R13	139143	1	RESISTOR, 43K, 1 2W, 5	Q2 LOAD RES
	RIU	321259	- 1	RESISTOR, 15 OHM, 1 2w.5"	
	R15	165178	- !	RESISTOR, 3.6K, 1 W . 5"	Q3 LOAD RES C4 BLEEDER RES
	R16	137442		RESISTOR, 1 5K, 1 2W, 5"	COIL CURRENT LIMITER
	R17	321151	ı	RESISTOR, II O OHM, 3W, 1:	CRB BIAS RES.
	RIB	321258		RESISTOR. ZOK, 1/2W, 5%	CRB BIAS RES.
	-	20.150		CAPACITOR .I MFD.	R.F. BY-PASS CAP
	CI	321158	-!-		R.F. BY-PASS CAP
	C2	321157		CAPACITOR, 500 PFD.	Q3 FEEDBACK CAP
	C3	171829	-	CAPACITOR, .15 MFD CAPACITOR, 50V, 2.7 MFD.	TRANSIENT SUPP.
	C5	321264 178860	-	CAPACITOR, 100 V., 022 MFD	
	C6	171587		CAPACITOR, 200V, 25 MFD.	Q4 FEEDBACK CAP.
	C7	171583	i	CAPACITOR, 003 MFD	R.F BY-PASS CAP.
	LI	321159		CHOKE, 39.0 PH	R. F. CHOKE
		321139		CHONE, SS.DP.	
	CRI	321161	- 1	DIODE, IN7484,3.9V ± 5%	REG. VOLT. REF.
	CR3	321154	1	DIODE, IN457A	QI BASE PROT.
	CR4	178844	-	VARISTOR, 100-A	TEMP. COMP.
	CR5	178844		VARISTOR, 100-A	TEMP. COMP.
	CR6	178844	1	VARISTOR, 100-A	TEMP. COMP.
	£87	18-667	1	DIGCE. IN"+04, 4."V 15%	TEMP COMP REF.
	CRE	177611	1	DIODE, INCA2	QU EMITTER DIODE
	CR9	321154	1	D100E, 18457A	TPANSIENT SUPP.
NOTE 4	CRIO	321154	-	DIGDE, IN45"A	SHORT PROT.
	Çı	321166	-	TRANSISTOR, 2N1893	D.C. AMP.
	Ç?	324;44		TRANSISTOR 2N4121	D.C. AMP.
	Ų3	321165	1	TRANSISTOR.	D.C. AMP.
	Q4	321261	1	*RANS: 5109, 294036	D.C. AMP.
		324147	1	PAD, TRANSISTOR	02
		144495	3	PAD, TRANSISTOR	01,03,04
		32(299	1	CIRCUIT BOARD ETCHED	
		32/171	2	LEAD (BK)	
	71-74	137471	4	LUG, TERMINAL	

NO	NOTES
ł	ALL RESISTORS 1/2 WATT, ALL RESISTANCE VALUES IN OHMS AND ALL CAPACITANCE VALUES IN MFD. UNLESS OTHERWISE SPECIFIED.
2	Q5 (181675) AND CR2 (321149) ARE MOUNTED TO 321148 HEAT SINK. SEE CMD ASSEMBLY 321991
3.	R2 IS ADJUSTED FOR IS MA IN CR2 WITH INPUT MARKING (F6) AND OUTPUT CONNECTED TO A 150 OHM RESISTOR ISW)
4.	R7 IS ACJUSTED FOR SYMMETRICAL SWITCH- ING ABOUT ZERO.
5.	PINS A,B I40 MA TO COILS PINS R,S -6V DC PINS C,D +47 TO 53V DC POWER PINS E,F,H,J CONTROL CONTACT PROVI- PINS N,F MS BBB SIGNAL INPUT PINS K,L,M COMMON (ALL IMPUTS AND OUTPUTS REFERRED TO COMMON)
6.	S-NUMBER 61,263\$

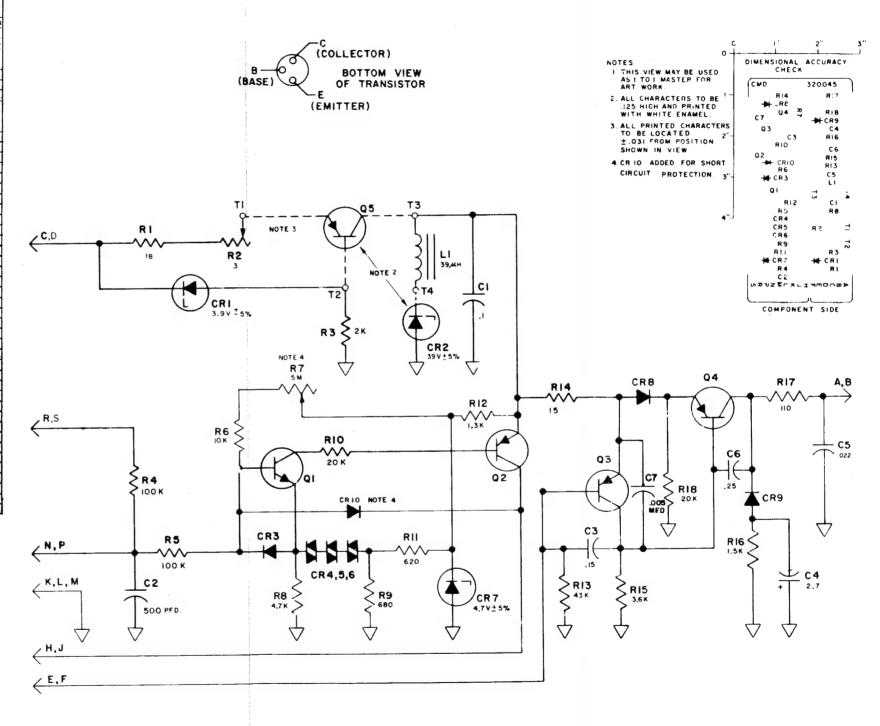


Figure 5-24. 321991 Circuit Card (CMD) Schematic Diagram (Sheet 2 of 2)

-321140 CIRCUIT BOARD

REF. DESIGN.	PART HO.	TOTAL QTY.	NAME AND DESCRIPTION	FUNCTION
CI	312284	1	CAPACITOR, 1.5 MFD 400V	RF FILTER
C2,3	171585	2	CAPACITOR, .22MFD 200V	RF FILTER
CN	171831		CAPACITOR, IOMED 150V	RECTIFIER FILTER
C5	178860	1	CAPACITOR, .022MFD 100V	RF FILTER
06.7	3/23/65	2	CAPACITOR, .IMFD IOV	RF FILTER
01	198937		RESISTOR, 2.7K 2W	
RI				+
R2	182180	2	RESISTOR, 200 OHM 1/2W	
R3	171533		RESISTOR 4 OHM 5W	200001110
R4.5	311664	2	RESISTOR. 2.5K BW	DROPPING
R6			SAME AS R2	RF FILTER
R7	305298	1	RESISTOR, 3.3K 3W	BLEEDER
CRI-4	182520	4	DIQUE (IN4383)	RECTIFIER
CR5,6	327794	2	DIODE, ZENER (7.2V)	REFERENCE
CR7	321286	2	DIODE, ZENER (IN4749A)	REFERENCE
CR8-11	178844	ц	VARISTOR (W.E. 100A)	REFERENCE
CR12	110011		SAME AS CR7	REFERENCE
13,4	321159	2	INDUCTOR 39 uH	RF FILTER
23,4	52.105	-		
Q2	321145	1	TRANSISTOR (2N2270)	GAIN
FCI,2	311068	2	FUSE CLIP	
F102	131807	1	FUSE .5 AMP.	1
TPI	320042	1	JACK, TEST (SLATE)	
TP2	320041	1	JACK, TEST (GREEN)	
TP3	320039	1	JACK, TEST (BLACK)	
TP4	320040	1	JACK, TEST (ORANGE)	
TP5	320038	1	JACK, TEST (RED)	
P1-3	137471	3	TERMINAL POST	CONNECTOR
	321140	1	CIRCUIT CARD	
51-54	336470	4		
ı	151637	2	SCREW 4-40	
2	151880	2	NUT 4-40 "	
3	110743	2	LOCK WASHER	
4	125011	2	FLAT WASHER	

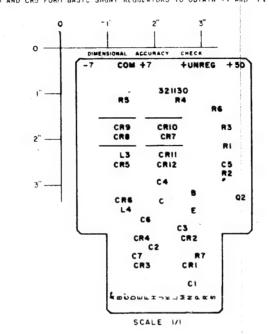
CIRCUIT DESCRIPTION (SEE MEET 2)

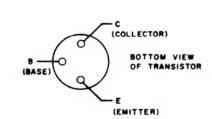
DIODES ORI AND ORS FORM. A RECTIFIER WITH ASSOCIATED TRANSFORMER (321123) TI AND CAPACITOR CB (321129) TO OBTAIN A MINIMUM -58V DC UNREGGIATED OF IS AN EMITTER FOLLOWER VOLTAGE REGULATING ELEMENT WHICH ABSORBS THE VOLTAGE DIFFERENCE BETWEEN THE UNREGULATED DC AND THE CONSTANT +50V DC REFERENCE ESTABLISHED BY DIODES CR7-CR12. Q2 PROVIDES GAIN FOR QL. DIGGES CR3. CR4. TRANSFORMER TI AND CAPACITOR C4 FORM A FULL WAVE RECTIFIEN TO OBTAIN NEGATIVE UNREGULATED DC R4 AND CR6. R5 AND CR5 FORM BASIC SHUNT REGULATORS TO OBTAIN +7 AND 74 DC.

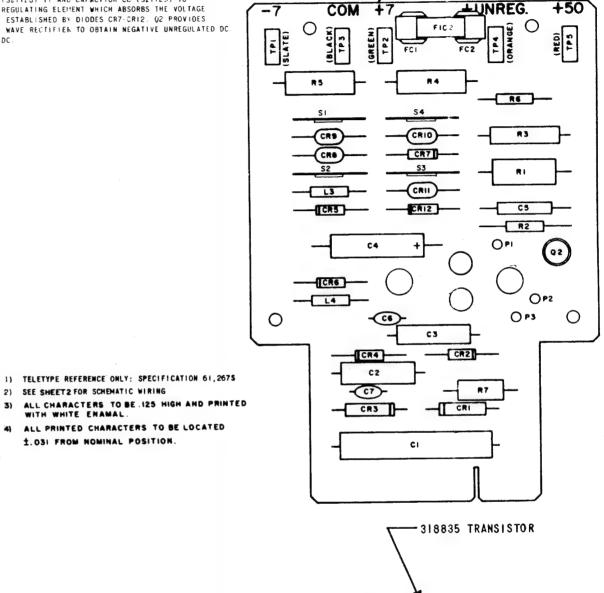
2) SEE SHEET2 FOR SCHEMATIC WIRING

4) ALL PRINTED CHARACTERS TO BE LOCATED 1.031 FROM NOMINAL POSITION.

WITH WHITE ENAMAL.

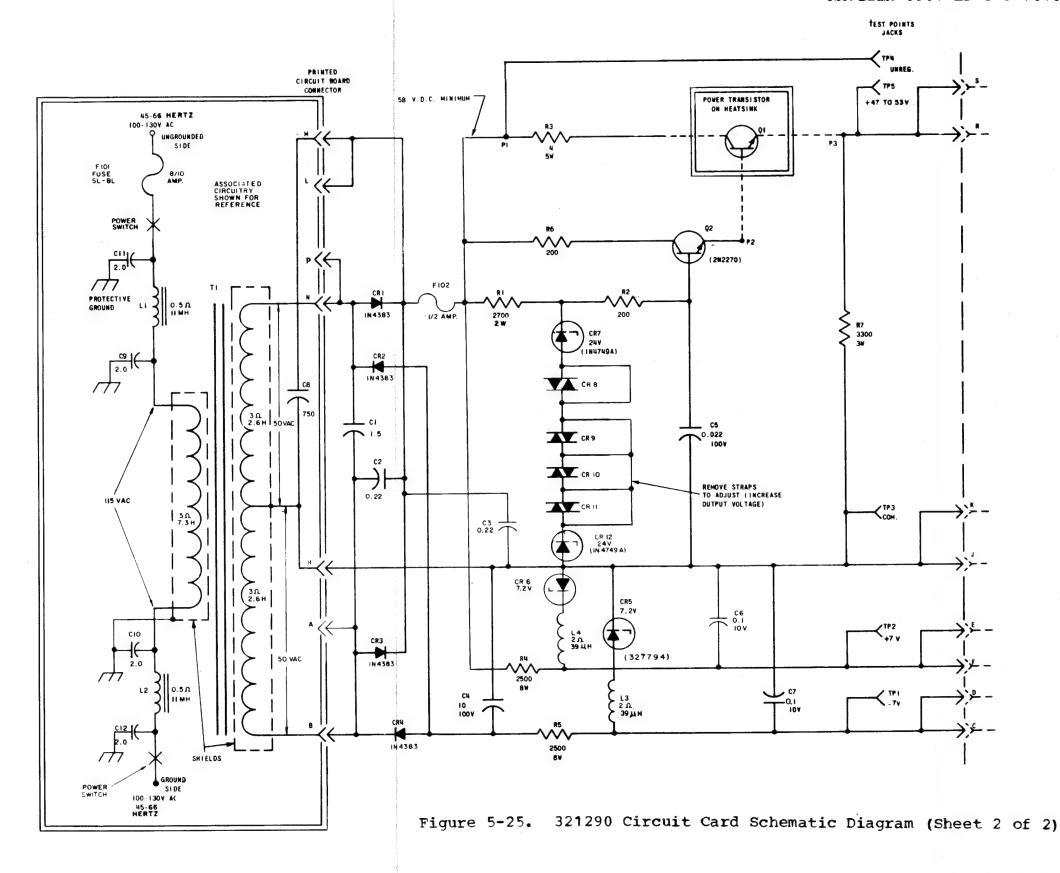


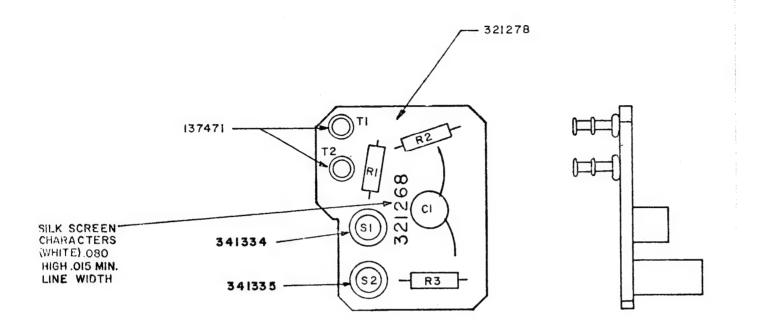




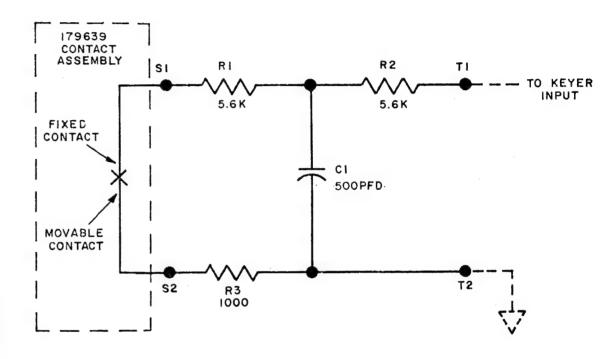
321288 HEAT SINK W/POSTS 321130 CIRCUIT BOARD ASSEMBLY

Figure 5-25. 321290 Circuit Card Schematic Diagram (Sheet 1 of 2)





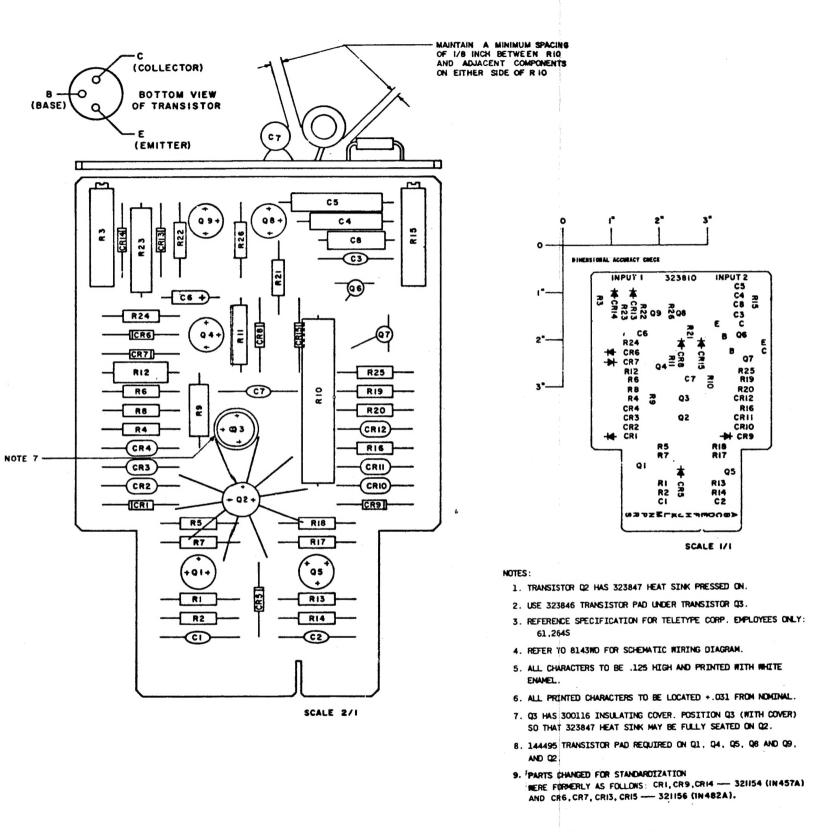
REF. DESIGN	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
RI	315960	2	RESISTOR, 5.6K I/4 WATT	RC FILTER
R2	11		SAME AS RI	н
R3	321213	1	RESISTOR, 1000 Ω 1/4 WATT	11
CI	321157	1	CAPACITOR, 500 PFD	ii .
TI	137471	2	TERMINAL, SOLDER	
Т2	н		11	
SI	341334	1	STUD, CONNECTOR	
\$2	341335	1	и	
321278	321273	1	BOARD, ETCHED CIRCUIT	



NOTE:

DASHED LINES INDICATE EXTERNAL CIRCUITRY.

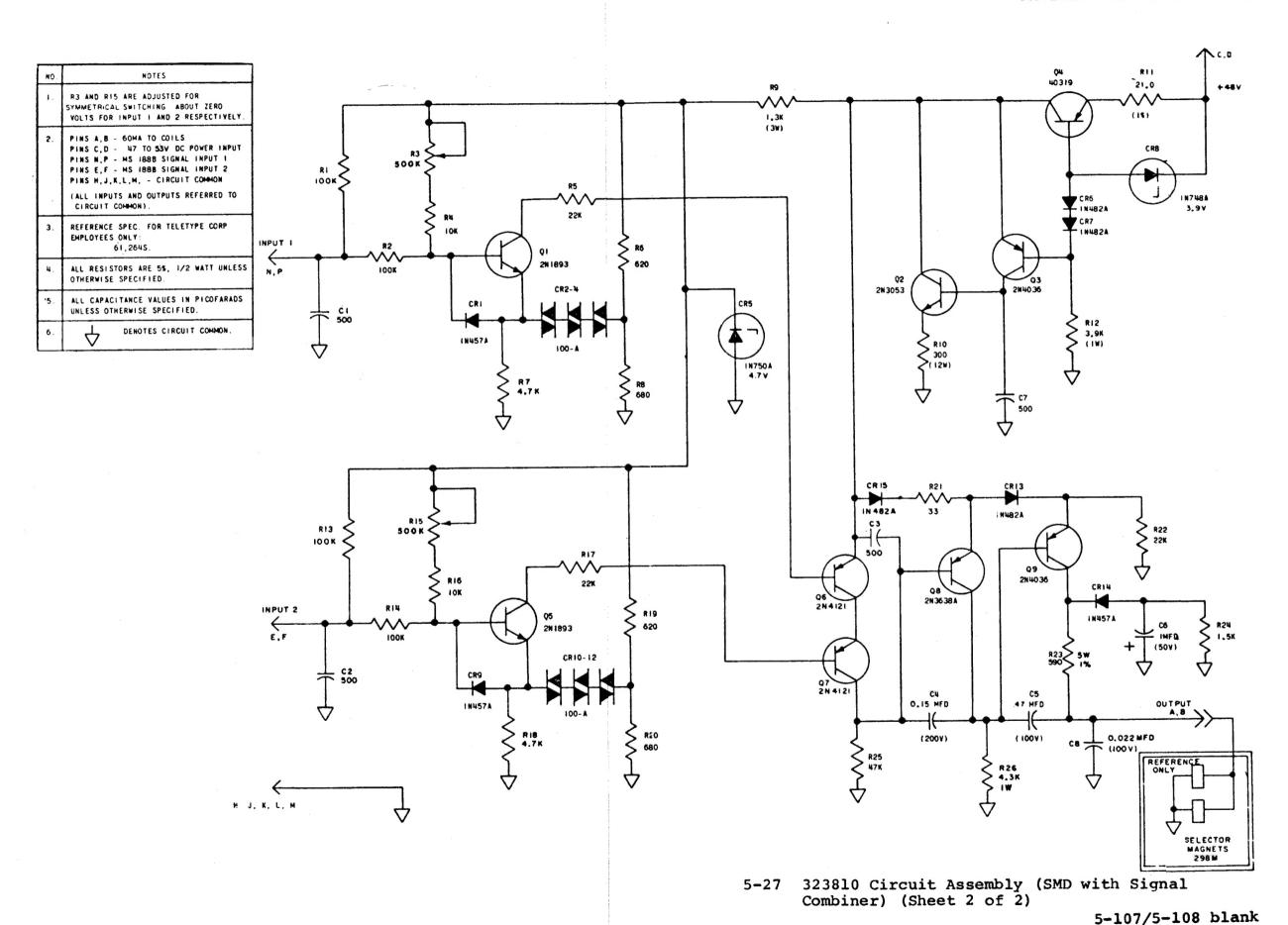
Figure 5-26. 321268 Filter Card Assembly Schematic Diagram

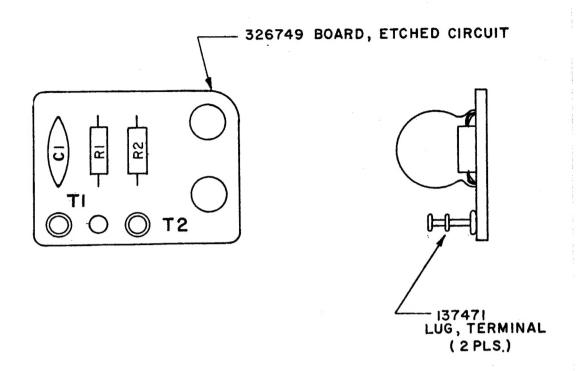


REF.	*******	I	`	T
	TELETYPE PART NO.	TOTAL	NAME AND DESCRIPTION	LOCATING FUNCTI
		QTY.		
C1	321157	1	CAPACITOR, 500 pf	D.F. DY-PASS CAP.
C2	321157	1	CAPACITOR, 500 PS	R.F. BY-PASS CAP.
C3	321157	1 '	CAPACITOR, 500 pf	P.F. BY-PASS CAP.
C4	171829	1	CAPACITOR, JS MFD	QB FEEDBACK CAP.
C5	326776	1	CAPACITOR, .47 MFD	99 FEEDBACE CAP.
CE	32126C	1	CAPACITOR, I MFD SOT	TRANSIENT SUPP.
67	327157	1	CAPACITOR, 500 pf	R.F. BY-PASS CAP.
CB	178860	1	CAPACITOR, .022 HFB	R.F. ST-PASS CAP.
21	118720	1	RESISTOR, 100K, 1/2W	OI OPER LINE BIAS
R2	118720	1	RESISTOR, 100K, 1/2W	IMPUT I RES
13	323964	1	POTENTIONE TER SOOK	
23	129854	 		QI BIAS
RS	118177	+	PESISTOR, IOE, 1/29	01 B1AS
	137604	_	EESISTOR, 22K, 1/2W	Q1 LOAD RES.
P6		<u>'</u>	2E31STOR, 620, 1/2W	VOLTAGE DIVIDER
117	118146	 '	#ESISTOR, 4.7K, 1/24	OI ENITTER RES.
R4	129850	<u>'</u>	RESISTOR, 680, 1/24	VOLTAGE DIVIDER
to to	309464	<u> </u>	RESISTOR, 1.3K, 3W	CRS CURRENT LINITER
RIO	323841	1	RESISTOR, 300, 12 W	92 LOAD RES.
R11	323642	1	RES 15702, 21, 1/20, 15	REG. CURRENT SET
R12	178864	1	RESISTOR, 3.9K, JW	CRS CURRENT LIMITER
213	118720	1	RESISTOR, 100K 1/2W	Q5 OPENLINE BIAS
RIT	1 18720	1	RESISTOR, 100K, 1/2W	IMPUT 2 RES.
RIS	123961	1	POTENTIONETER SOOR	OS BIAS
RIG	129654		RESISTOR, IOK, I/ZW	05 BIAS
R17	118177	+	RESISTOR, 10K, 1/2W	
				OS LOAD BES.
RIB	118146	1	RESISTOR, 4.7K, 1/2W	Q5 EMITTER RES.
RIP	137604	-	BES1STOR, 620, 1/2W	VOLTAGE DIVIDER
R20	129850	+	RESISTOR, 680, 1/2W	VOLTAGE DIVIDER
R21	321975	'	RESISTOR, 33, 1/2W	OB ENITTER RES.
R22	118177		RESISTOR, 22K, 1/2W	CRIS BIAS RES.
R23	323843		RESISTOR. 590, 5W, 15	COIL CURRENT LINITER
R24	137442	1	RESISTOR, 1-5K, 1/2W	C6 BLEEDER RES.
R25	118154	1	RESISTOR 47K, 1/2W	96,07 LOAD RES.
R26	120424	1	RESISTOR 4.3K, IW	OS LOAD RES.
CRI	197464	7	DIODE, NOTE 9	OI BASE PROT.
CR2	178844	1	VARISTOR, 100-A	TEM. COM.
CR3	178844	,	VARISTOR, 100-A	TEMP. COMP.
CES	178845	1	YARISTOR, 100-A	TEMP COMP.
CRS	181667	1	D1005. 18750A	TENP. COMP. REF.
CRE			SAME AS CRI	ON COLLECTOR CLAMP
C#7		—	II II II	04 COLLECTOR CLAMP

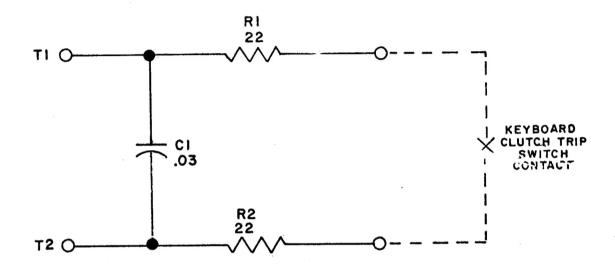
CRB	321161	-	5100E, 18748A	REG. VOLT REF.
CR9		 . 	SAME AS CRI	QS BASE PROT.
CRIO	170844	!	VARISTOR, 100-A	TEMP. COMP.
CRII	178844		VARISTOR, 100-A	TEMP. COMP.
****	178844	1	VARISTOR, 100-A	TEMP. COMP.
CRIZ				1
CR12 CR13		<u> </u>	SAME AS CRI	09 EMITTER DIODE
			81 81 82	TRANSIENT SUPP.
CR13				1
CR18 CR14	321164	1.	81 81 82	TRANSIERT SUPP.
CR13 CR14 CR15	321166 323844	1.	H 11 11	TRANSIENT SUPP.
CRIS CRIS QI		1	11 11 11 11 11 11 TEANSISTOR, 201893	TRANSIERT SUPP. 00 ENITTER DIODE DC AMP. SHURT REG
CR18 CR14 CR15 Q1 Q2 Q3	323844 321261	-	II II II VEARSISTOR, 281893 TRANSISTOR, 283053 TRANSISTOR, 284036	TRANSIERT SUPP. 00 EMITTER DIODE DC AMP. SHURT REG. EMIRT REG. AMP.
CR18 CR14 CR15 Q: Q: Q2 Q3	323844 321261 323845	1	II II II IF II II FEARS ISTOR, 241893 FEARS ISTOR, 243053 FEARS ISTOR, 244036 FEARS ISTOR, 40319	TRANSIERT SUPP. 90 CHITTER DIODE DC AMP. SHURT REG. SHURT REG. AMP. SERIES REG.
CR13 CR14 CR15 Qi Q2 Q2 Q3 Q4	323844 321261 323845 321166		II II II FEAMSISTOR, 281893 TRANSISTOR, 283053 TRANSISTOR, 284036 TRANSISTOR, 90319 TRANSISTOR, 281893	TRANSIERT SUPP. 90 ENITTER DIODE DC AMP. SHURT REG SHURT REG, AMP. SERIES REG. DC AMP
CR13 CR14 CR15 Qi Q2 Q3 Q4 Q5 Q6	323844 321261 323845	1	II II II VEAMSISTOR, 281893 TRANSISTOR, 283053 VEAMSISTOR, 284036 TEAMSISTOR, 90319 TEAMSISTOR, 281893 TEAMSISTOR, 284121	TRANSIERT SUPP. 90 CHITTER DIODE DC AMP. SHURT REG. SHURT REG. AMP. SERIES REG.
CR13 CR14 CR15 Qi Q2 Q3 Q1 Q1 Q5 Q6 Q7	323844 321261 323845 324166 324186	1 1 2	11 11 11 17 11 11 17 24M31STOR, 281693 1724M31STOR, 283053 1744M31STOR, 283056 1744M31STOR, 90319 1744M31STOR, 281893 1744M31STOR, 281821 34ME AS Q6	TRAISIERT SUPP. DE CHITTER DIODE DE AMP. SMURT RES SMURT RES SERIES RES. DE AMP. DE AMP.
CR13 CR14 CR15 Qi Q2 Q3 Q4 Q5 Q4 Q7 Q6	323844 321261 323845 321166 324144	1 1 2 2	## ## ## ## ## ## ## ## ## ## ## ## ##	TRAISIERT SUPP. DE CHITTER DIODE DE AMP. SMURT RES SMURT RES SERIES RES. DE AMP. DE AMP. DE AMP.
CR13 CR14 CR15 Qi Q2 Q3 Q1 Q1 Q5 Q6 Q7	323844 321261 323845 324166 324186	1 1 2	11 11 11 17 11 11 17 24M31STOR, 281693 1724M31STOR, 283053 1744M31STOR, 283056 1744M31STOR, 90319 1744M31STOR, 281893 1744M31STOR, 281821 34ME AS Q6	TRAISIERT SUPP. DE CHITTER DIODE DE AMP. SMURT RES SMURT RES SERIES RES. DE AMP. DE AMP.
CR13 CR14 CR15 Qi Q2 Q3 Q4 Q5 Q4 Q7 Q6	323844 321261 323845 321166 324144	1 1 2 2	## ## ## ## ## ## ## ## ## ## ## ## ##	TRAISIERT SUPP. DE CHITTER DIODE DE AMP. SMURT RES SMURT RES SERIES RES. DE AMP. DE AMP. DE AMP.
CR13 CR14 CR15 Qi Q2 Q3 Q4 Q5 Q4 Q7 Q6	323844 321261 323845 321166 324144 321165 321261	1 1 2 1	11 11 11 TEAMSISTOR, ZRISSS TRANSISTOR, ZRISSS TRANSISTOR, ZRISSS TRANSISTOR, ASSIS TRANSISTOR, ASSIS TRANSISTOR, ZRISSS TRANSISTOR, ZRISSS TRANSISTOR, ZRISSS TRANSISTOR, ZRISSS TRANSISTOR, ZRISSSA TRANSISTOR, ZRISSSA	TRAISIERT SUPP. DE CHITTER DIODE DE AMP. SMURT RES SMURT RES SERIES RES. DE AMP. DE AMP. DE AMP.
CR13 CR14 CR15 Qi Q2 Q3 Q4 Q5 Q4 Q7 Q6	323844 321261 323845 321166 324144 321165 321261 324147	1 1 2	11 11 11 TEAMSISTOR, ZMISSS TRAMSISTOR, ZMSOSS TRAMSISTOR, ZMSOSS TRAMSISTOR, ZMSOSS TRAMSISTOR, ZMSOSS TRAMSISTOR, ZMSOSS TRAMSISTOR, ZMSSSS TRAMSISTOR, ZMSSSS TRAMSISTOR, ZMSSSSA TRAMSISTOR, ZMSSSSA TRAMSISTOR, ZMSSSSA	TRAISIERT SUPP. DE CHITTER DIODE DE AMP. SMURT RES SMURT RES SERIES RES. DE AMP. DE AMP. DE AMP.
CR13 CR14 CR15 Qi Q2 Q3 Q4 Q5 Q4 Q7 Q6	323844 321261 327345 321146 324144 324146 321165 321281 324187 14495	1 1 1 2 1 1 2 a a	11 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11 11 17 11	TRAISIERT SUPP. DE CHITTER DIODE DE AMP. SMURT RES SMURT RES SERIES RES. DE AMP. DE AMP. DE AMP.
CR13 CR14 CR15 Qi Q2 Q3 Q4 Q5 Q4 Q7 Q6	223844 321261 273845 221166 324144 321165 321281 224147 14495 223846	1	II II II TEAMSISTOR, 281893 TEAMSISTOR, 281893 TEAMSISTOR, 281993 TEAMSISTOR, 281905 TTAMSISTOR, 281905 TTAMSISTOR, 281923 TEAMSISTOR, 281921 SAME AS GE TEAMSISTOR, 281936A TEAMSISTOR, 281936A TEAMSISTOR, 281936A TEAMSISTOR, 281936A TEAMSISTOR, 281936A TEAMSISTOR, 281936A TEAMSISTOR, 281936A TEAMSISTOR, 281936A TEAMSISTOR, 281936A TEAMSISTOR PAD, TEAMSISTOR	TRANSIERT SUPP. 90 DHITTER DIODE DC AMP. SHURT REG. SHURT REG. AMP. SERIES REG. DC AMP. DC AMP. DC AMP.

Figure 5-27. 323810 Circuit Assembly (SMD with Signal Combiner) (Sheet 1 of 2)





			·	
REF. DESIGN	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
RI	326751	2	220HM, 1/4 WATT RESISTOR 10%	CURRENT LIMITER
R2			SAME AS RI	
CI	326752	1	.03 MFD., 50V CAPACITOR	RF BY-PASS
TI	137471	2	LUG, TERMINAL	
T2			SAME AS TI	
	326749	1	BOARD, ETCHED CIRCUIT	
			·	
		1		<u> </u>



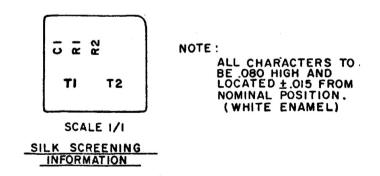


Figure 5-28. 326750 Filter Card Assembly Schematic

